

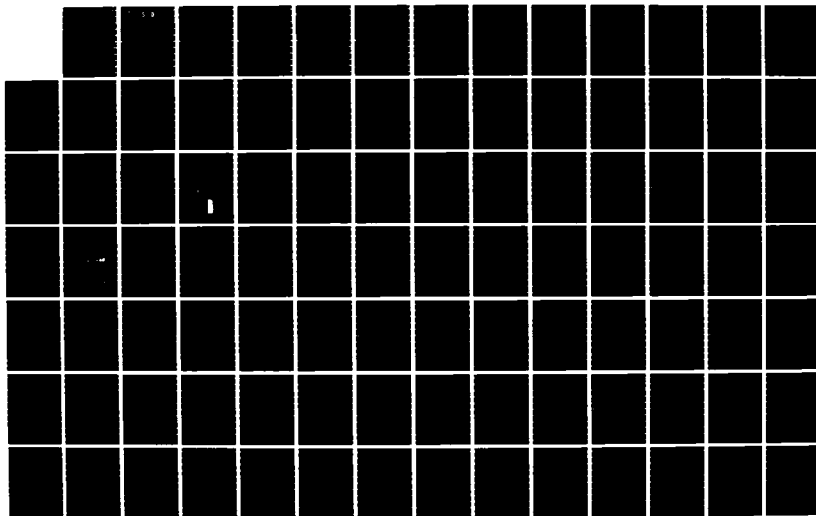
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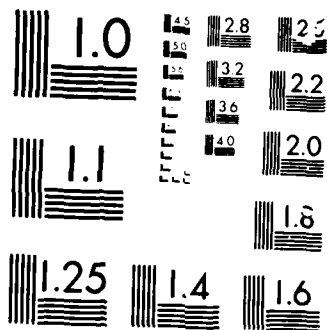
A USER'S GUIDE TO THE SOCIOECONOMIC ENVIRONMENTAL
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Engineer Institute for
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A User's Guide to the Socioeconomic Environmental Demographic Information System (SEEDIS)

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A USER'S GUIDE TO THE SOCIOECONOMIC
ENVIRONMENTAL DEMOGRAPHIC INFORMATION SYSTEM
(SEEDIS)

by

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for

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FOREWORD

Since 1973 the Corps of Engineers has funded the development of a computerized data base to provide Corps planners with access to socioeconomic data. Originally designated as SIRAP (for System of Information Retrieval and Analysis for Planners), the data base became integrated into a larger data base system designated as SEEDIS (for Socio Economic Environmental Demographic Information System). SEEDIS has been developed at the Lawrence Berkeley Laboratory of the University of California with funds provided by the Departments of Labor and Energy and the Corps of Engineers. Since 1978 the Institute for Water Resources (IWR) has managed the continued development of SEEDIS for the Corps of Engineers. Under IWR management the system has evolved from a batch oriented system to an interactive on-line information retrieval system where users in FOAs can directly retrieve information from the computer and can download the information in forms usable by microcomputer spreadsheet and statistical analysis programs.

Currently SEEDIS provides the following features:

Data access and retrieval of more than 50,000 items for each county.

Data access and retrieval of 1000 census items for each subcounty area (census tract or enumeration district/block group)

Facilities to create graphic displays, including bar charts, pie graphs and thematic maps.

Facilities for downloading of data files to micro computers in formats readable by spreadsheet and statistical analysis programs.

This manual is designed to provide an introduction to SEEDIS for Corps users. It provides information which can enable first time users to successfully obtain data they need. The manual also provides details on accessing and using more advanced features of the data base.

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Introduction

This document is intended to be an introduction to SEEDIS for those users who have never been exposed to a data retrieval or storage program. It explains many of the capabilities of SEEDIS, in particular those tasks which the new user will need to get started. The aims of this document are to help a new user to run SEEDIS successfully on his or her first attempt, to serve as a reference for the infrequent user of SEEDIS, and to motivate further self-education in the more advanced features of SEEDIS.

What is SEEDIS?

SEEDIS, the Lawrence Berkeley Laboratory's Socio-Economic Environmental-Demographic Information system, is an integrated information system for retrieving, analyzing, and displaying selected portions of large data bases. These include a wide variety of geographically linked data on the United States' population, economy, agriculture, employment, mortality, air quality, and energy production and use.

For Corps of Engineers' planners, SEEDIS is primarily useful for obtaining demographic and socioeconomic data for economic base studies, social profiles and other plan formulation and evaluation tasks. Using SEEDIS Corps' analysts can:

- Access and retrieve over 50,000 pieces of information at county levels of detail and over 1,000 pieces of data for sub-county levels of geography, including Minor Civil Divisions, Census Tracts, and Enumeration District-Block Groups.
- Transform SEEDIS data into formats useable by statistical analysis programs (SPSS and SAS) as well as by popular microcomputer spreadsheet programs (e.g. LOTUS 1-2-3).
- Download SEEDIS files or transformed files to microcomputers using communications software.

How This Manual is Organized

The various sections of this manual guide a SEEDIS user on a step-by-step tour through the elements of SEEDIS. This journey is illustrated by example screens, each of which builds upon previous ones. The examples focus on a three county geographic area (the Topeka Kansas SMSA) and on data from the 1947-1977 County Data Book and 1980 Census summary tape files. In all of the following examples, requests typed by the user are shown in **boldface** while responses or messages typed by the SEEDIS system remain in pale face.

The first 26 pages of the manual constitute a novice user's introduction to SEEDIS and are hence sectioned **BEGINNING SEEDIS** in the table of contents, while the remainder of the manual takes the user into more depth on aspects of SEEDIS and may be rightfully called **INTERMEDIATE SEEDIS**.

Logging on to the VAX 11/780 Computer

After connecting the terminal to the computer, either by phone lines or through a terminal already directly connected to the computer, do the following:

1. Hit the carriage return key one or more times
2. This will elicit the request for your name and password.

There may or may not be a 'message of the day' printed at this point. These messages describe possible events to occur during the day (times when the machine will be down, or available on a limited basis), or announce system changes or additions. Following the message you will be given the system prompt, **\$**. This is your cue that the machine is now ready to receive input from your terminal. You can start SEEDIS by typing **seedis**.

user types name and password	<pre> LBH - CSR VMS Network VAX Username: ARMYCORPS Password: Welcome to LBH - CSR VMS V4.2 VAX 11/780 Last interactive login on Wednesday, 4-DEC-1985 12:51 Last non-interactive login on Wednesday, 20-NOV-1985 13:18 1 failure since last successful login ***** System Shutdown: None scheduled ----- VMS V4.2 apparently has some problems with its math library, particularly concerning exponential routines. It is suggested that you compile your programs with the "check=full" switch to receive error notification at run-time. The problems seem to most often manifest themselves as floating point underflow errors. (12/3) ***** Disk usage for [212,027] 11739 used / 20000 maximum You have Software Tools mail - use 'msg' to read 9/25/85 1982 Census of Agriculture ----- A new database (code CZ) has been installed in SEEDIS. It provides the 1982 U.S. Census of Agriculture with many comparable items from the 1978 Agriculture census. Over 3,500 items are available for each STATE and COUNTY in the U.S. It requires the mounting of the disk pack CENSAGR001. There are some known spelling errors in the data dictionary which will be corrected soon. 9/10/85 1983 County & City Data Book ----- The 1983 County and City Data Book has been installed in SEEDIS. The county portion is database code CX, currently available at COUNTY80 level of geography, and includes information from the 1978 Census of Agriculture and the 1977 Business and Government censuses. The city portion (for cities with population greater than 25,000) has different data and hence is given a different database code CY. It is available at the PLACE80 level of geography. For further information on either database, contact Fred Gey (FIS 451-6208) or Esther Schroeder (FIS 451-5306). If you have questions or problems using SEEDIS or want to obtain printed output, please call Mona Elnowski or Ann Gerken at (415) 642-6571 or (FIS) 415-642-6571. What's your last name? gey Thank yougey \$ seedis </pre>
disk usage	
requests SEEDIS	

Correcting Typing Errors

In addition to their obvious functions, several keys on your keyboard can be given special meaning by the simultaneous use of the CONTROL (CTRL) or SHIFT keys. These keys are:

(shift)RUB

[DEL on a Texas Instruments terminal]

[RUB on a Tektronix 4014 graphics terminal]

Using this key will erase characters from the line, one character at a time.

CTRL-u

Using this key will cause the entire line being typed to be deleted.

CTRL-r

This key will cause the line you are typing to be retyped at your terminal. Useful when working on a paper terminal and several corrections have been made, possibly making the line unreadable.

This key is used BEFORE the carriage return key has been hit.

CTRL-s

This key will temporarily halt the printing of information at your terminal. Particularly useful when using a screen terminal. The printing will remain halted until you use the CTRL-q key.

CTRL-q

This key will cause the printing halted by the CTRL-s key to resume. You may use the CTRL-s and q keys as many times as needed to look at a file.

CTRL-o

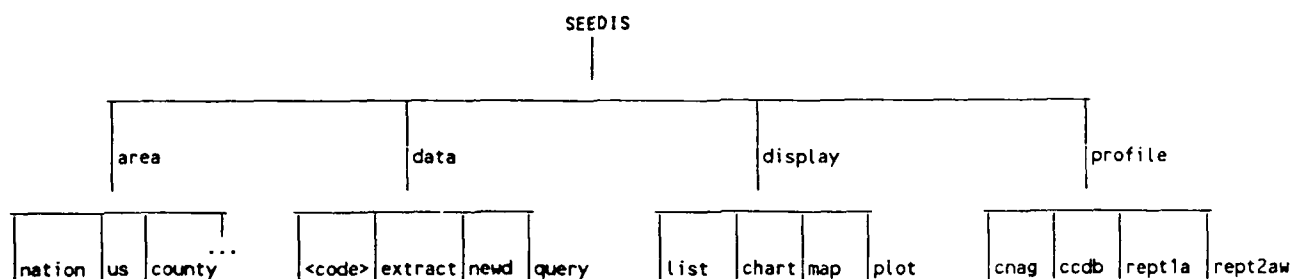
This key will terminate the printing of a file on your terminal.

CTRL-o suspends the printing of your file at the terminal while processing continues. If it is a very long file you can press CTRL-o again and the display will resume from the current point of processing.

The Structure of SEEDIS

SEEDIS operates as a hierarchy of menu options. If any particular option is chosen, it will present another sub-menu of options. Each menu can be finished with the response *quit*.

The four main options (called *modules*) which are presented when SEEDIS is accessed are *area*, *data*, *display*, and *profile*.



The *area* module defines the chosen geographic area of interest. It **MUST** be accessed and entered before any other module in SEEDIS (unless the area has been defined on a previous SEEDIS run, in which case the user can proceed directly to other options).

The *data* module is used to choose data items and to retrieve them for the particular geographic areas of interest. Within the *data* module there are also other powerful modules for manipulating SEEDIS data files, such as *newdata* (for adding personal data to SEEDIS working data files), and *query* (for selecting subsets of data and computing derived values).

The *display* module offers several ways to display the retrieved data in meaningful ways.

Finally, the *profile* module offers consolidated summaries of area characteristics.

The usual method of operating SEEDIS is to invoke *area*, *data*, *display* in that order, one after another. For beginners, the preferred method is to select *profile* after defining an *area*.

Accessing SEEDIS

Once you get the system prompt, "\$", you simply type the word "seedis" followed by a carriage return (CR).

Example 1: Accessing the SEEDIS System

user requests SEEDIS	\$ seedis	WELCOME TO SEEDIS, VERSION 1.4
		At any point in Seedis, you can type the following global commands to get these services.
	Input	Description
	?	list and describe commands in this menu
	help	describe the purpose of this menu's commands
	show	list and explain items to be selected
	review	list current session status and history
	cancel	delete current selections (depends upon context)
	quit	return to previous menu
	*<comment>	enter a comment in Seedis log
	control-T	check process (CPU = time in central processing unit)
	control-Y	abort process, return to operating system
		Please stand by. Your menu prompt will be here shortly.
question mark shows menu options	?	SEEDIS: area, data, display, profile
	Input	Description
	area	select new geographic area (level and scope)
	data	select, extract, enter or transform data
	display	display data in tables, charts, or maps
	profile	produce 1940-1977 County Data Book report
	?	list available commands in this menu
	help	describe how to use Seedis
	show	list Seedis databases
	review	list current session status and history
	cancel	delete files that Seedis created
	quit	leave Seedis and return to operating system
	*<comment>	enter a comment in Seedis log

As shown above, SEEDIS offers several "global" commands which enable the user to obtain help and keep track of where he/she is in the SEEDIS session. These commands are:

Command	Description
?	list currently available commands
help	describe SEEDIS usage in greater detail
show	show extended lists of choices
review	review current session status & history
cancel	cancel current options and restart
quit	leave current place and return

The commands *help*, *show*, *review*, and *cancel* are context-dependent, that is they operate slightly differently depending where you are in the SEEDIS system. For example, *HELP* will always give information relating to where you are in the usage of the system. On the other hand, successive use of *quit* will always enable you to gracefully exit SEEDIS.

Suppose you are performing a flood control study in the Topeka, Kansas metropolitan area. You are preparing an economic base report and social profile for the study. These reports will focus on the SMSA as a whole, and also on selected census tracts which are adjacent to the Kansas River which runs through the northern part of the city of Topeka. The remainder of the User's Manual will illustrate how information for these reports for the counties comprising the SMSA is obtained. This is followed by a final chapter on obtaining data on cities and towns below the county level of detail. Appendix B of the Manual provides additional detail as well as examples of retrieving census tract data.

Selecting a Study Area

To select a study area, you first invoke the AREA command. Then you will be asked to select a level of geography. Finally, you will be prompted for your particular area. The following example selects three counties in the State of Kansas which make up the Topeka Standard Metropolitan Statistical area.

Example 2: A Three-county Study Area

user chooses area	area	SEEDIS: area, data, display, profile
	: county	AREA: nation, state, county, county80, <other level>
	: kansas	AREA: <state>, us, us+, fr<mn>
		State is KANSAS
	: jeffer,osage,shawnee	AREA: <county(s)>, all
	: review	AREA: <county(s)>, all
		Areas Selected ----- KANSAS JEFFERSON OSAGE SHAWNEE
	: quit	AREA: <county(s)>, all
	: quit	AREA: <state>, us, us+, fr<mn>

Things to note about AREA selection

1. Area selection is done by common name, not by entering obscure codes.
2. More than one area can be selected on a single line, separated by commas. The input line "all" will select all possible areas (all counties within a state, all states in the U.S., etc.).
3. The full area name need not be spelled out; the first few unique characters will suffice.
4. The REVIEW command shows what has been selected.
5. Successive QUIT commands will save area selection and return to the SEEDIS monitor menu.
6. The CANCEL command eliminates all area selection and starts over.

Profile Reports of the Study Area

A general overview of the study area may be obtained by invoking the PROFILE module, which has currently four packaged profiles, *ccdb* (1947-1977 county data book), *cnag* (1974 Census of Agriculture), *rept1a* (1980 Census Summary Tape File 1 100% population count), and *rept2aw* (1980 Census Summary Tape File 3 20% sample including income and employment).

user chooses profile option	profile	SEEDIS: area, data, display, profile
	: ?	PROFILE: ccdb, cnag, rept1a, rept2aw
chooses CNAG profile	Input	Description
	CCDB	County Data Book (1940-1977)
	CNAG	1974 & 1980 Census of Agriculture
	REPT1A	1980 Census Summary Tape File 1 80 column pages
	REPT2AW	1980 Census STP3 (income, employment) 132 column page
	?	list available commands in this menu
	help	describe writing of profiles
	show	[no effect]
	review	list current session status and history
	cancel	return to main SEEDIS menu
	quit	return to main SEEDIS menu
	*comment>	enter a comment in SEEDIS log
		PROFILE: ccdb, cnag, rept1a, rept2aw
	: cnag	
	: type	PROFILE page, type, print

The type
command
types the
profile to
your
terminal

type

PROFILE: page, type, print

SEEDIS Run on 1 Dec 1983

JEFFERSON County, KAN

Lawrence Berkeley Laboratory

1974 and 1980 U. S. Census of Agriculture

In 1974 this area contained 1,078 farms. The total land area in farms was 273,793 acres, which comprised 83.9 percent of the total land area. The average farm size was 254 acres, and the average value of land and buildings per farm was \$104,126.

The following table summarizes crop production for this area.

Crop Production

Crop	Units	Amount Harvested	1974
Corn used for grain	bu	2,247,837	1,214,839
Sorghums for grain or seed	bu	1,248,453	919,649
Wheat for grains	bu	372,107	431,010
Soybeans Used for beans	bu	223,096	475,473
Oats	bu	44,077	68,438
Barley	bu	250	3,550
Rye	bu	830	100
Irish potatoes	100wt	733	339
Hay	tons	50,904	41,094
Corn for silage/grain/stock	tons	33,750	41,106
Cotton	bales	-	-
Peanuts for nuts	pounds	-	-
Locusts	pounds	-	-

SEEDIS Run on 1 Dec 1983 OSAGE County, KAN
Lawrence Berkeley Laboratory 1974 and 1989 U. S. Census of Agriculture

In 1974 this area contained 1,023 farms. The total land area in farms was 386,896 acres, which comprised 85.5 percent of the total land area. The average farm size was 378 acres, and the average value of land and buildings per farm was \$118,130.

The following table summarizes crop production for this area.

Crop Production			
Crop	Units	Amount Harvested	
		1969	1974
Corn used for grain	bu	820,785	185,310
Sorghums for grain or seed	bu	2,842,819	1,644,343
Wheat for grains	bu	489,613	683,668
Soybeans Used for Beans	bu	614,916	650,889
Oats	bu	29,670	56,283
Barley	bu	5,564	975
Rye	bu	-	-
Irish potatoes	100wt	303	97
Hay	tons	49,696	45,756
Corn for silage/green chop	tons	36,857	40,824
Cotton	bales	-	-
Peanuts for nuts	pounds	-	-
Tobacco	pounds	-	-

SEEDIS Run on 1 Dec 1983 SHAWNEE County, KAN
Lawrence Berkeley Laboratory 1974 and 1989 U. S. Census of Agriculture

In 1974 this area contained 981 farms. The total land area in farms was 244,947 acres, which comprised 69.9 percent of the total land area. The average farm size was 250 acres, and the average value of land and buildings per farm was \$109,495.

The following table summarizes crop production for this area.

Crop Production			
Crop	Units	Amount Harvested	
		1969	1974
Corn used for grain	bu	2,026,902	1,372,312
Sorghums for grain or seed	bu	1,287,517	837,089
Wheat for grains	bu	843,270	668,423
Soybeans Used for Beans	bu	133,469	168,456
Oats	bu	43,290	23,981
Barley	bu	360	-
Rye	bu	-	-
Irish potatoes	100wt	3,122	11,125
Hay	tons	47,697	43,882
Corn for silage/green chop	tons	21,778	23,732
Cotton	bales	-	-
Peanuts for nuts	pounds	-	-
Tobacco	pounds	-	-

PROFILE: page, type, print

: quit

PROFILE: cddb, cnag, rept1a, rept2aw

User selects
the 'ccdb'
profile

'page' prints
the profile by
screenfuls

: ccdb

PROFILE: ccdb, cnag, rept1a, rept2aw

: page

PROFILE: page, type, print

1

1977 CITY COUNTY DATA BOOK
FAMILIES, INCOME AND HOUSING PROFILE
KS JEFFERSON

FAMILY, INCOME

	1950	1960	1970
Number of Families	3,080	3,011	3,197
Percent Low Income 1/	50.4%	33.7%	14.4%
Median Family Income (\$)	1,983	4,287	8,346

PUBLIC ASSISTANCE RECIPIENTS

	1972	1976
AFDC	89	270
AFDC children		182
Average Monthly Payments/Fam (\$)	165	246
SSI		
Total		145
Aged		84
Payments Total/Mo. (\$000)		[2]

HOUSING

	1940	1950	1960	1970
Total Housing Units	4,027	3,839	3,862	4,055
Percent built since last census		5.7%	12.6%	24.8%
Occupied units	3,748	3,530	3,473	3,771
Owner occupied	52.2%	69.6%	76.0%	79.6%
Median/Mean occupants	3.0rd	2.7rd	3.2m	3.1m
Median value owner-occupied (\$)			5,800	11,397
Median rent (\$)			60	87
mobility (% moved into in last 5 years)				45.0%

CONSTRUCTION (1975-1978)

New private units authorized	164
% single units	96.3
% 5+ units	0.0
Total permit value (\$000)	4,145
Average per unit (\$/unit)	25,274

1/ low income defined as under \$2000 for 1950 and
as under \$3000 for 1960 and 1970

[n] denotes a suppression flag of value n

1 1977 CITY COUNTY DATA BOOK BUSINESS AND INDUSTRY PROFILE KS JEFFERSON					
	1954	1958	1963	1967	1972
[Press SPACE for more]					
Manufacturing establishments	6	11	11	12	13
payroll (\$000)	409	401	257	300	[2]
value add (\$000)	438	860	510	800	[2]
new cap exp \$000	28	0	16	100	[2]
employees	119	99	66	100	[2]
production workers	97	75	51	0	[2]
Retail Trade establishments	136	134	126	109	145
sales (\$000)	7,884	8,097	8,788	9,549	12,290
payroll (\$000)	545	559	678	760	784
employees	283	261	237	228	253
Selected Services					
[Press SPACE for more]					
establishments	44	49	53	71	79
receipts (\$000)	222	422	435	567	1,214
payroll (\$000)	24	36	48	64	182
employees	18	21	23	28	58
Wholesale Trade establishments	17	18	10	7	17
sales (\$000)	0	2,295	2,291	2,797	8,200
payroll (\$000)	0	131	68	103	438
employees	0	32	19	20	66
Mineral Industries establishments		2	2	4	1
payroll (\$000)		0	0	[1]	[1]
ship val (\$000)	0	0	0	[1]	[1]
[Press SPACE for more]					
value add (\$000)			0		[1]
cap exp (\$000)				0	
employees		0	0	[1]	[1]
[n] denotes a suppression flag of value n					

	1	1977 CITY COUNTY DATA BOOK FAMILIES, INCOME AND HOUSING PROFILE KS OSAGE		
		FAMILY, INCOME		
		1950	1980	1970
	Number of Families	3,525	3,549	3,830
	Percent Low Income 1/	46.5%	37.5%	15.7%
	Median Family Income (\$)	2,104	3,939	7,553
	[Press SPACE for more] q			
	The following suppression flags may be encountered in the PROFILES where data is taken from the 1977 CITY COUNTY DATA BOOK. The suppression flags are:			
	[1] no data - not available [2] no data - suppression for confidentiality purposes [3] no data - not applicable [6] no data - geographic unit not incorporated at the time to which this item refers [7] no data - data omitted for negro or spanish heritage populations less than 400			
	: quit	PROFILE: page, type, print		

Selecting the Report 1A Profile

After displaying his CCDB profile, the user only has to select the rept1a option within PROFILE to automatically obtain the Report 1A profile (1980 Census Summary Tape File 1) for the same areas.

user selects the rept1a profile	: quit	PROFILE: page, type, print
	: rept1a	PROFILE: ccdb, cnag, rept1a, rept2aw
	: page	PROFILE: page, type, print

The "print" option shown above will print out the profile on the computer's line printer (usually at LBL). Call LBL if you have used this command and wish to have printouts mailed to you. This option is especially useful if the printout is too voluminous for your terminal (the CCDB profile for Texas counties will generate 497 pages of output).

1980 Census STF1	Report 1A. Population and Housing Part I
SEEDIS Run on 1 Dec 1983	Jefferson County
Lawrence Berkeley Laboratory	Kansas

Population by Race, Origin, Marital Status		
Universe: Persons	Number	Percent

Population by Race, including Hispanics	15,207	100.0
White	14,897	98.6
Black	51	0.3
Native American	110	0.7
American Indian	110	0.7
Eskimo	-	-
Aleut	-	-
Asian and Pacific Islander (4)	21	0.1
Japanese	4	-
Chinese	1	-
Filipino	1	-
Korean	3	-
Asian Indian	1	-

[Press SPACE for more] q

PROFILE: page, type, print

: quit

Selecting the Report 2A Profile

After displaying his Report 2A profile, the user can select the rept2aw option within PROFILE to obtain the Report 2A profile (1980 Census Summary Tape File 3) for the same areas.

user selects the rept2aw profile		PROFILE: page, type, print
	: quit	PROFILE: ccdb, cnag, rept1a, rept2aw
	: rept2aw	
	: page	PROFILE: page, type, print
U.S. Department of Labor		Report 2A: Employment and Training Ind
Employment and Training Admin.		Table: Population, Labor Force, and In
1980 Census, Run on 1 Dec 1983		
Lawrence Berkeley Laboratory		
<hr/>		
Population		Labor Force, Industry and Occ
Universe: Persons (50)	Number	Pct
Population by Race, incl Hisp	15,207	100.0
White	14,949	98.3
Black	58	0.4
Native American	144	0.9
Asian and Pacific Isl (4)	31	0.2
Remaining Races (a)	25	0.2
Hispanic, all races	106	0.7
		Universe: Persons 16 Years and Over
		Number
		Total, incl Hisp
		6,64
		White
		8,55
		Black
		2
		Native American
		3
		Asian/Pac Isl (4)
		..
		Remaining Race(a)
		..

[The complete profiles for this example appear below in Appendix A]

Data Selection of Individual Data Items

In addition to obtaining area profile reports, users can select and retrieve individual data elements for a study area by using the DATA selection module. SEEDIS contains a number of large data bases (currently 30 different data bases with over 11,000 elements for each county are available). This section describes how to retrieve individual SEEDIS data items.

Each data base in SEEDIS has associated with it unique letter codes and a catalogue of data items which it contains. In order to see the data bases available for the level of geography previously selected, type "show." To browse through a particular catalog and select specific data elements from the associated data base, type the code for that data base, as shown below for the County Data Book Time Series data base:

Example 4: Selecting the County Data Book Catalogue

	SEEDIS: area, data, display, profile																																																																																																																																																																										
: data																																																																																																																																																																											
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	DATABASE CODES FOR COUNTY LEVEL																																																																																																																																																																										
	<table border="1"> <thead> <tr> <th>Code</th> <th>Database Title</th> <th>Scope</th> <th>Vars</th> <th>Access</th> </tr> </thead> <tbody> <tr><td>AF</td><td>1970-77 Population by Age/Sex/Race</td><td>US</td><td>608</td><td>offline</td></tr> <tr><td>AM</td><td>Areas, Centroids, and Boundaries</td><td>US+</td><td>35</td><td>local</td></tr> <tr><td>AP</td><td>1980 Census Population (prelim)</td><td>CA</td><td>3</td><td>local</td></tr> <tr><td>BJ</td><td>Pop, labor force, migr, fertility</td><td>US</td><td>483</td><td>local</td></tr> <tr><td>EX</td><td>1980 Population by Race</td><td>US</td><td>11</td><td>local</td></tr> <tr><td>CJ</td><td>1950-80 Population by Age/Sex/Race</td><td>US</td><td>306</td><td>local</td></tr> <tr><td>O</td><td>1970-75 Population by Age/Sex/Race</td><td>US</td><td>432</td><td>local</td></tr> <tr><td>R</td><td>Revised 1970 Pop'n by Age/Sex/Race</td><td>US</td><td>138</td><td>local</td></tr> <tr><td>T</td><td>1970 Pop by Age/Sex/Race/Mar Stat</td><td>US</td><td>216</td><td>local</td></tr> <tr><td>B</td><td>Biomass Resources, 1976 and 2025</td><td>CA</td><td>55</td><td>local</td></tr> <tr><td>D</td><td>1970 Residential Housing & Heating</td><td>CA</td><td>233</td><td>offline</td></tr> <tr><td>E</td><td>1960-85 Elec Generating Capacity</td><td>US</td><td>18</td><td>local</td></tr> <tr><td>A</td><td>Extract, Pop at Risk to Air Poll</td><td>CA</td><td>25</td><td>local</td></tr> <tr><td>L</td><td>1974-1978 Air Quality (complete)</td><td>US+</td><td>257</td><td>local</td></tr> <tr><td>M</td><td>1974-1978 Air Quality (summary)</td><td>US+</td><td>30</td><td>offline</td></tr> <tr><td>Z</td><td>1974-1978 Air Qual: county vs PUS</td><td>US+</td><td>30</td><td>local</td></tr> <tr><td>BA</td><td>1969-77 Annual Leukemia Mortality</td><td>US</td><td>980</td><td>offline</td></tr> <tr><td>BZ</td><td>1973-77 SEER cancer incid by hist</td><td>SEER1</td><td>308</td><td>local</td></tr> <tr><td>CT</td><td>1973-81 SEER cancer incidences</td><td>SEER3</td><td>95040</td><td>offline</td></tr> <tr><td>CE</td><td>1968-72 Age Spec Mortality, Whites</td><td>US</td><td>76</td><td>offline</td></tr> <tr><td>CK</td><td>1968-78 Annual age spec mortality</td><td>US</td><td>1796896</td><td>offline</td></tr> <tr><td>P</td><td>1968-1972 Age Adjusted Mortality</td><td>US</td><td>652</td><td>local</td></tr> <tr><td>V</td><td>1977 Area Resource File</td><td>US</td><td>889</td><td>local</td></tr> <tr><td>X</td><td>Cancer Mortality, 1950-1969</td><td>US</td><td>424</td><td>local</td></tr> <tr><td>AJ</td><td>1971-1978 Employment by Industry</td><td>US</td><td>284</td><td>offline</td></tr> <tr><td>CA</td><td>1980 Census, Summary Tape File 1</td><td>US</td><td>342</td><td>local</td></tr> <tr><td>CF</td><td>1980 Census, Summary Tape File 3</td><td>US</td><td>1153</td><td>local</td></tr> <tr><td>CI</td><td>1963 Employment by Industry</td><td>US</td><td>381</td><td>offline</td></tr> <tr><td>CR</td><td>1940-70 Employment by Industry</td><td>US</td><td>200</td><td>local</td></tr> <tr><td>CZ</td><td>1982 U. S. Census of Agriculture</td><td>US</td><td>3366</td><td>offline</td></tr> <tr><td>F</td><td>1947-1977 County Data Book</td><td>US</td><td>1022</td><td>local</td></tr> <tr><td>G</td><td>1974 U. S. Census of Agriculture</td><td>US</td><td>1200</td><td>local</td></tr> <tr><td>U</td><td>1970 Socio-Econ Characteristics</td><td>US</td><td>228</td><td>local</td></tr> </tbody> </table>	Code	Database Title	Scope	Vars	Access	AF	1970-77 Population by Age/Sex/Race	US	608	offline	AM	Areas, Centroids, and Boundaries	US+	35	local	AP	1980 Census Population (prelim)	CA	3	local	BJ	Pop, labor force, migr, fertility	US	483	local	EX	1980 Population by Race	US	11	local	CJ	1950-80 Population by Age/Sex/Race	US	306	local	O	1970-75 Population by Age/Sex/Race	US	432	local	R	Revised 1970 Pop'n by Age/Sex/Race	US	138	local	T	1970 Pop by Age/Sex/Race/Mar Stat	US	216	local	B	Biomass Resources, 1976 and 2025	CA	55	local	D	1970 Residential Housing & Heating	CA	233	offline	E	1960-85 Elec Generating Capacity	US	18	local	A	Extract, Pop at Risk to Air Poll	CA	25	local	L	1974-1978 Air Quality (complete)	US+	257	local	M	1974-1978 Air Quality (summary)	US+	30	offline	Z	1974-1978 Air Qual: county vs PUS	US+	30	local	BA	1969-77 Annual Leukemia Mortality	US	980	offline	BZ	1973-77 SEER cancer incid by hist	SEER1	308	local	CT	1973-81 SEER cancer incidences	SEER3	95040	offline	CE	1968-72 Age Spec Mortality, Whites	US	76	offline	CK	1968-78 Annual age spec mortality	US	1796896	offline	P	1968-1972 Age Adjusted Mortality	US	652	local	V	1977 Area Resource File	US	889	local	X	Cancer Mortality, 1950-1969	US	424	local	AJ	1971-1978 Employment by Industry	US	284	offline	CA	1980 Census, Summary Tape File 1	US	342	local	CF	1980 Census, Summary Tape File 3	US	1153	local	CI	1963 Employment by Industry	US	381	offline	CR	1940-70 Employment by Industry	US	200	local	CZ	1982 U. 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Example 4 showed how to select the appropriate catalogue or dictionary for a particular data base. If the user had such a catalogue in printed form he would begin to leaf through the printed pages, beginning perhaps at the Table of Contents. Data selection within SEEDIS proceeds in much the same fashion, except that SEEDIS allows the user to browse through the catalogue much as he would a paper one. The SEEDIS selection program first prints the cover page of the dictionary. The user can examine the table of contents by invoking the TABLE command, as in the next example.

Example 5: Examining the Table of Contents

	: f	
	!CCNTDB77	COUNTY DATA BOOK DICTIONARY CONSOLIDATED FILE COUNTY DATA 1947-1977
	Database Code	F
	Geographic Levels	state, county
	Directory Authors	Fredric Gey, Staff Scientist Computer Science and Mathematics Department Lawrence Berkeley Laboratory, Mailstop 50B-3238 Berkeley, CA 94720
	Telephone	(415) 486-6208 or FTS 451-6208
	Data Source	County and City Data Books 1947-1977 U.S. Bureau of the Census Washington, DC
	Last Update	30 November 1983
	Reformatted	May-November 1983
		DATA: <line letter(s)>, table, <page number>, CR
prints table of contents	: table	
	F	County Data Book 1947-1977 Table of Contents
	Page	TABLE OF CONTENTS
	pref	PREFACE
	table	Table of Contents
	1	Introduction
	2	Geographic Designations
	3	General Population Characteristics, Migration
	6	Vital Statistics, Family
	8	Age
	9	Income
	11	Social Security and Public Assistance
	12	Education
	13	Presidential Vote
	14	Medical
	15	Crime and Police
	16	Employment and Labor Force
	16	Employment, General Characteristics
	17	Journey to Work
	18	Local Government Employment
		DATA: <line letter(s)>, table, <page number>, CR
population data on page 3		
next screen	: CR	

table of contents continued	19	Social Security Coverage
	19	Unemployment
	20	Housing
	23	Business and Industries
	23	Retail Trade
	25	Establishments by Type
	26	Payroll and Employment
housing data on page 20	27	Personal Business and Repair Services
	27	Selected Services
	28	Establishments by Type
	30	Wholesale Trade
	31	Mineral Industries
	32	Manufactures
	36	War Contracts
	37	Agriculture
	42	Farm Households, Level of Living
	43	Banking
	44	Local Government
	44	Revenue
	44	Expenditures
	45	Indebtedness

The data catalogue can be examined sequentially from beginning to end by simply pressing successive carriage returns (CR), one after another. On the other hand, each line in the Table of Contents refers to a page number of the text of the catalogue. To view that page within SEEDIS, one simply types that number. For example, to examine Population data from the above catalogue, type "3":

Example 6: Selecting Population Data from the County Data Book

choose page 3	DATA: <line letter(s)>, table, <page number>, CR
	3
	County Data Book POPULATION, DENSITY, MIGRATION, RURAL Page 3
	Data Elements Description Time

	Population
A !CCDBC0012	1940
B !CCDBC0013	1950
C !CCDBC0014	1960
D !CCDBC0015	1970
E !CCDBC0016	1970
F !CCDBC0017	1972
G !CCDBC0018	1975
	Population Rank
H !CCDBC0006	1950
I !CCDBC0007	1960
J !CCDBC0008	1960
K !CCDBC0009	1970
L !CCDBC0010	1975
	Population Rank in Percentile
M !CCDBC0011	1940
	Land Area in Square Miles
N !CCDBC0001	1940
choose data items	a-d,n
	DATA: <line letter(s)>, table, <page number>, CR
	number of data elements selected is 5

Notice that to the left of each data item on the previous page there is an alphabetic "sequence character," followed by an exclamation point (!). To select a data item on the displayed page, the user simply types in the appropriate "sequence letters," as above in Example 6 or below in Example 7.

Example 7: Selecting Housing Data from the County Data Book

choose page 20	DATA: <line letter(s)>, table, <page number>, CR		
	: 20	County Data Book	HOUSING: UNITS, OCCUPANCY, VALUE Page 20
		Data Elements	Description Time

	A !CCDBC0282	Residential Structures	1940
		Housing Units	
	B !CCDBC0283		1940
	C !CCDBC0284		1950
	D !CCDBC0285		1960
	E !CCDBC0286		1970
choose data items	F !CCDBC0287	Percent Change	1960-1970
		Median Rooms Per Unit	
	G !CCDBC0288		1950
	H !CCDBC0289		1960
	I !CCDBC0290		1970
		Percent in Detached Structures	
	J !CCDBC0291		1950
	K !CCDBC0292		1960
	L !CCDBC0293		1970
		Percent in 5 or More Unit Structures	
DATA: <line letter(s)>, table, <page number>, CR			
: b-e	number of data elements selected is 4		
DATA: <line letter(s)>, table, <page number>, CR			
: review	Data elements selected for this database: 9		
	CCDBC0012	CCDBC0013	CCDBC0014
	CCDBC0015	CCDBC0001	CCDBC0283
	CCDBC0284	CCDBC0285	CCDBC0286
DATA: <line letter(s)>, table, <page number>, CR			
: quit			

Thus, in Example 6 on the previous page, the user has selected total population for the years 1940, 1950, 1960, and 1970 as well as the county area in square miles. In example 7, the number of housing units in the years 1940, 1950, 1960, and 1970 were selected.

A key feature of SEEDIS is the ability to select and retrieve data from more than one data base and merge all selected data items into a single work file for display and analysis.

Another important data base is the 1980 Census Summary Tape File 3 (data base code CF in the list of data bases shown above in example 4). In the following example, we will select 1980 population and housing units from this data base dictionary.

Example 8: Selecting Data from the 1980 Census

user chooses code CF	<p>DATA. <database code>, extract, newdata, query, mode:</p> <p>CF</p> <p>Disk pack SEEDIS005 is not presently on line. Data can be selected but not extracted at this time.</p> <hr/> <p>STF3 1980 CENSUS. SUMMARY TAPE FILE 3</p> <hr/> <p>Database Code CF</p> <p>Geographic Levels NATION80 CENREG CENDIV STATE COUNTY80 COUNTY CNTY7080 CD97 SCSA81 STSCSA81 SMSA81 STSMSA81 UA80 STUA80 FED EDBC80PT2</p> <p>Geographic Scope US (only 38 states for level EDBC80PT2)</p> <p>Directory Authors L. Wong, D. Merrill Lawrence Berkeley Laboratory, Berkeley, CA</p> <p>Data Source Census of Population and Housing, 1980, Census Bureau</p> <p>Last Update 27 October 1983</p> <p>Documentation \$ copy disk\$seedis004.[seedis.secdict]stf3.sof *.* \$ @sy\$seedis:[seedis.docs]soff stf3 print</p>
population data on page 32	<p>DATA. <line letter(s)>, table, <page number>, CR</p> <p>CF 1980 Census: STF3 Page 2 of 385</p> <p>PAGE TABLE OF CONTENTS</p> <hr/> <p>1 Title Page 2 Table of Contents 14 Subject Matter Description 15 Data Elements 16 Known Errors and Omissions 31 Table Description 31 TAB1. Urban and Rural (3) 31 TAB2. Unweighted Sample Count of Persons (1) 32 TAB3. 100-Percent Count of Persons (1) 32 TAB4. Urban and Rural (3) 32 TAB5. Unweighted Sample Count of Housing Units 34 TAB6. 100-Percent Count of Housing Units 35 TAB7. Farm Residence (Current Farm 35 TAB8. Farm Residence (1970 Census Farm 36 TAB9. Families (1) 36 TAB10. Households (1) 37 TAB11. Occupancy Status (3)</p>
housing data on page 34	

choose page 32	32	DATA. <line letter(s)>, table, <page number>, CR
	CF	1980 Census: STF3 Page 32 of 396 TAB3: 100-Percent Count of Persons (1) Universe: 100-Percent Count of Persons Footnote: 38
	Data Element	Sup Description
	A !TAB3(1)	100-Percent Count of Persons
select total population		TAB4: Urban and Rural (3) Universe: Housing Units (Including Vacant Seasonal And Migratory Units) Note: To obtain urban count, subtract rural from total. Footnote: 1 50
	Data Element	Sup Description
	B !TAB4(1)	Total
	C !TAB4(2)	Inside urbanized areas
page 34	D !TAB4(3)	Rural
	:a	DATA. <line letter(s)>, table, <page number>, CR Number of data elements selected is 1
	: 34	DATA. <line letter(s)>, table, <page number>, CR
	CF	1980 Census: STF3 Page 34 of 396 TAB6: 100-Percent Count of Housing Units (Including Vacant Seasonal and Migratory Units (1) Universe: 100-Percent Count of Housing Units (Including Vacant Seasonal And Migratory Units) Footnote: 1 38
obtain housing units	Data Element	Sup Description
	A !TAB6(1)	100-Percent Count of Housing Units (Including Vacant Seasonal and Migratory Units)
	:a	DATA. <line letter(s)>, table, <page number>, CR Number of data elements selected is 1
	: quit	DATA. <line letter(s)>, table, <page number>, CR
end data selection		DATA. <database code>, extract, newdata, query, model

As this example shows, the user first examines the table of contents of the data base catalogue using the "table" command. The table of contents shows that population data is on page 32, and housing data are on page 34 of the catalog. The user enters a page number to go to the appropriate page and then selects data elements he/she is interested in

To Review: What have we done so far in DATA Selection

1. Selected the county data book
2. Selected 1940, 1950, 1960, 1970 total population and land area
3. Selected 1940, 1950, 1960, 1970 total housing units
4. Selected 1980 Census STF3 total population and total housing units

Data Extraction

Data values are not automatically retrieved when items are selected. For efficiency (particularly if network access is involved), the user explicitly invokes data extraction once (as illustrated below), to retrieve all previously selected data to his or her own working data file. No other information about file names or storage locations needs to be supplied.

retrieves selected data	: extract DATA: <database code>, extract, newdata, query, model
----------------------------	---

Review of Current Status

The global review command produces a standard display of information about the user's current status, as shown below.

user requests report on current status	: review geographic level COUNTY geographic scope geographic area contains 3 geographic units data selection none remain to be extracted data models none remain to be calculated working data file contains 14 data elements graphic device map projection disk packs SEEDIS001 is on __DUA1: SEEDIS002 is not on line SEEDIS003 is not on line SEEDIS004 is on __DRB5. SEEDIS005 is on __DRB6. CENS80005 is not on line (If necessary, type %dschedx to schedule disk packs. All packs are new big packs. System mounting required.) DATA: <database code>, extract, newdata, query, model
	: quit SEEDIS: area, data, display, profile
finishes with data selection	

Having selected and extracted his data, the user is ready to examine what has been obtained. This is done by leaving the DATA section and proceeding to the DISPLAY section of SEEDIS.

Data display within SEEDIS is accessed via the various DISPLAY menu options. The simplest is a LIST routine for listing data values in tabular form at the terminal or on a line printer. As usual, the user can invoke "?" or "help" to select an appropriate command option. Here, our hypothetical user requests a description of command options.

user proceeds to data display	display	SEEDIS: area, data, display, profile
selects option for tabular listing requests description of available commands	list	DISPLAY: chart, list, map, plot, device
	?	DISPLAY/LIST: page, type, print
	Input	Description
	page	list data at the terminal page by page
	type	list data at the terminal without paging
	print	print data on the line printer
	?	list available commands in this menu
	help	describe alternatives for listing data
	show	list names and labels of data elements in working data set
	review	list current session status and history
	cancel	[no effect]
	quit	return to previous menu
	*comment>	enter comment in SEEDIS log

The *print* option above refers to the line printer located in Berkeley. If you have printed output which you would like to receive, call LBL or the SEEDIS Applications Service Center.

Our user now requests listing of the data at the terminal.

user requests display to be typed at terminal without paging	type	DISPLAY/LIST page, type, print	FIPS.STATE	FIPS.COUNTY
	KS JEFFERSON	20	087	
	KS OSAGE	20	139	
	KS SHAWNEE	20	177	
		CCDBC0012	CCDBC0013	
		Population 1940	Population 1950	
	KS JEFFERSON	12718	11084	
	KS OSAGE	15118	12811	
	KS SHAWNEE	91247	105418	
		CCDBC0014	CCDBC0015	

Population 1960 Population 1970

KS JEFFERSON	11252	11945
KS OSAGE	12886	13352
KS SHAWNEE	141286	155322

CCDBC0001 CCDBC0283

Land Area in Square Miles	Housing Units 1940
------------------------------	-----------------------

KS JEFFERSON	549	4027
KS OSAGE	721	5007
KS SHAWNEE	545	28009

CCDBC0284 CCDBC0285

Housing Units 1950	Housing Units 1960
-----------------------	-----------------------

KS JEFFERSON	3839	3862
KS OSAGE	4462	4788
KS SHAWNEE	33917	46015

CCDBC0286 TAB3(1)

Housing Units 1970	100-Percent Count of Persons (1)
-----------------------	--

KS JEFFERSON	4055	15207
KS OSAGE	4898	15319
KS SHAWNEE	51929	154916

TAB6(1)

100-Percent Count of Housing Units
--

KS JEFFERSON	5817
KS OSAGE	6152
KS SHAWNEE	64446

user finishes
data listing

quit

DISPLAY/LIST page type print

Chart Making

The SEEDIS CHART module provides extensive facilities for producing standard and customized charts on various output devices. Terminal interfaces are available for the Tektronix 4010, 4014/15/16, and color 4027 and 4105 terminals. The output may be obtained on an IBM-PC using a 4010 emulation program.

CHART itself can create bar charts, line graphs, pie charts, and do significant statistical and other calculations. Of the many commands available within CHART, we shall illustrate the following:

command	meaning
1. <code>cd</code>	change directory
2. <code>ls</code>	list files
3. <code>pwd</code>	print working directory
4. <code>cp</code>	copy
5. <code>mv</code>	move
6. <code>rm</code>	remove
7. <code>mkdir</code>	make directory
8. <code>rmdir</code>	remove directory
9. <code>find</code>	find files
10. <code>grep</code>	search for text
11. <code>cat</code>	concatenate
12. <code>head</code>	show first lines
13. <code>tail</code>	show last lines
14. <code>diff</code>	compare files
15. <code>sort</code>	sort files
16. <code>uniq</code>	unique
17. <code>wc</code>	word count
18. <code>tr</code>	translate
19. <code>sed</code>	stream editor
20. <code>awk</code>	awk
21. <code>perl</code>	perl
22. <code>python</code>	python
23. <code>ruby</code>	ruby
24. <code>java</code>	java
25. <code>c++</code>	c++
26. <code>c</code>	c
27. <code>fortran</code>	fortran
28. <code>matlab</code>	matlab
29. <code>octave</code>	octave
30. <code>scilab</code>	scilab
31. <code>gnuplot</code>	gnuplot
32. <code>paraview</code>	paraview
33. <code>vtk</code>	vtk
34. <code>openfoam</code>	openfoam
35. <code>ansys</code>	ansys
36. <code>abaqus</code>	abaqus
37. <code>comsol</code>	comsol
38. <code>solidworks</code>	solidworks
39. <code>autocad</code>	autocad
40. <code>revit</code>	revit
41. <code>blender</code>	blender
42. <code>maya</code>	maya
43. <code>houdini</code>	houdini
44. <code>cinema4d</code>	cinema4d
45. <code>corona</code>	corona
46. <code>arnold</code>	arnold
47. <code>renderman</code>	renderman
48. <code>maya_ocio</code>	maya_ocio
49. <code>houdini_ocio</code>	houdini_ocio
50. <code>cinema4d_ocio</code>	cinema4d_ocio
51. <code>corona_ocio</code>	corona_ocio
52. <code>arnold_ocio</code>	arnold_ocio
53. <code>renderman_ocio</code>	renderman_ocio
54. <code>maya_hip</code>	maya_hip
55. <code>houdini_hip</code>	houdini_hip
56. <code>cinema4d_hip</code>	cinema4d_hip
57. <code>corona_hip</code>	corona_hip
58. <code>arnold_hip</code>	arnold_hip
59. <code>renderman_hip</code>	renderman_hip
60. <code>maya_hip_ocio</code>	maya_hip_ocio
61. <code>houdini_hip_ocio</code>	houdini_hip_ocio
62. <code>cinema4d_hip_ocio</code>	cinema4d_hip_ocio
63. <code>corona_hip_ocio</code>	corona_hip_ocio
64. <code>arnold_hip_ocio</code>	arnold_hip_ocio
65. <code>renderman_hip_ocio</code>	renderman_hip_ocio
66. <code>maya_hip_ocio_ocio</code>	maya_hip_ocio_ocio
67. <code>houdini_hip_ocio_ocio</code>	houdini_hip_ocio_ocio
68. <code>cinema4d_hip_ocio_ocio</code>	cinema4d_hip_ocio_ocio
69. <code>corona_hip_ocio_ocio</code>	corona_hip_ocio_ocio
70. <code>arnold_hip_ocio_ocio</code>	arnold_hip_ocio_ocio
71. <code>renderman_hip_ocio_ocio</code>	renderman_hip_ocio_ocio
72. <code>maya_hip_ocio_ocio_ocio</code>	maya_hip_ocio_ocio_ocio
73. <code>houdini_hip_ocio_ocio_ocio</code>	houdini_hip_ocio_ocio_ocio
74. <code>cinema4d_hip_ocio_ocio_ocio</code>	cinema4d_hip_ocio_ocio_ocio
75. <code>corona_hip_ocio_ocio_ocio</code>	corona_hip_ocio_ocio_ocio
76. <code>arnold_hip_ocio_ocio_ocio</code>	arnold_hip_ocio_ocio_ocio
77. <code>renderman_hip_ocio_ocio_ocio</code>	renderman_hip_ocio_ocio_ocio
78. <code>maya_hip_ocio_ocio_ocio_ocio</code>	maya_hip_ocio_ocio_ocio_ocio
79. <code>houdini_hip_ocio_ocio_ocio_ocio</code>	houdini_hip_ocio_ocio_ocio_ocio
80. <code>cinema4d_hip_ocio_ocio_ocio_ocio</code>	cinema4d_hip_ocio_ocio_ocio_ocio
81. <code>corona_hip_ocio_ocio_ocio_ocio</code>	corona_hip_ocio_ocio_ocio_ocio
82. <code>arnold_hip_ocio_ocio_ocio_ocio</code>	arnold_hip_ocio_ocio_ocio_ocio
83. <code>renderman_hip_ocio_ocio_ocio_ocio</code>	renderman_hip_ocio_ocio_ocio_ocio
84. <code>maya_hip_ocio_ocio_ocio_ocio_ocio</code>	maya_hip_ocio_ocio_ocio_ocio_ocio
85. <code>houdini_hip_ocio_ocio_ocio_ocio_ocio</code>	houdini_hip_ocio_ocio_ocio_ocio_ocio
86. <code>cinema4d_hip_ocio_ocio_ocio_ocio_ocio</code>	cinema4d_hip_ocio_ocio_ocio_ocio_ocio
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89. <code>renderman_hip_ocio_ocio_ocio_ocio_ocio</code>	renderman_hip_ocio_ocio_ocio_ocio_ocio
90. <code>maya_hip_ocio_ocio_ocio_ocio_ocio_ocio</code>	maya_hip_ocio_ocio_ocio_ocio_ocio_ocio
91. <code>houdini_hip_ocio_ocio_ocio_ocio_ocio_ocio</code>	houdini_hip_ocio_ocio_ocio_ocio_ocio_ocio
92. <code>cinema4d_hip_ocio_ocio_ocio_ocio_ocio_ocio</code>	cinema4d_hip_ocio_ocio_ocio_ocio_ocio_ocio
93. <code>corona_hip_ocio_ocio_ocio_ocio_ocio_ocio</code>	corona_hip_ocio_ocio_ocio_ocio_ocio_ocio
94. <code>arnold_hip_ocio_ocio_ocio_ocio_ocio_ocio</code>	arnold_hip_ocio_ocio_ocio_ocio_ocio_ocio
95. <code>renderman_hip_ocio_ocio_ocio_ocio_ocio_ocio</code>	renderman_hip_ocio_ocio_ocio_ocio_ocio_ocio
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98. <code>cinema4d_hip_ocio_ocio_ocio_ocio_ocio_ocio_ocio</code>	cinema4d_hip_ocio_ocio_ocio_ocio_ocio_ocio_ocio
99. <code>corona_hip_ocio_ocio_ocio_ocio_ocio_ocio_ocio</code>	corona_hip_ocio_ocio_ocio_ocio_ocio_ocio_ocio
100. <code>arnold_hip_ocio_ocio_ocio_ocio_ocio_ocio_ocio</code>	arnold_hip_ocio_ocio_ocio_ocio_ocio_ocio_ocio
101. <code>renderman_hip_ocio_ocio_ocio_ocio_ocio_ocio_ocio</code>	renderman_hip_ocio_ocio_ocio_ocio_ocio_ocio_ocio
102. <code>maya_hip_ocio_ocio_ocio_ocio_ocio_ocio_ocio_ocio</code>	maya_hip_ocio_ocio_ocio_ocio_ocio_ocio

WINDOW narrow down to specific rows or columns

WINDOW	narrow down to specific rows or columns
MASK	mask out undesired columns of data

PLOT REPORT print out the data in report form

BAR draw a bar chart

draw a pie chart

```

user enters      : chart
chart
module

requests        : plot report
default bar
chart

```

DISPLAY: chart, list, map, plot, device

Table size is 3 rows by 11 columns.
For tables larger than one screenful see "help table size"

CHART: <commands>

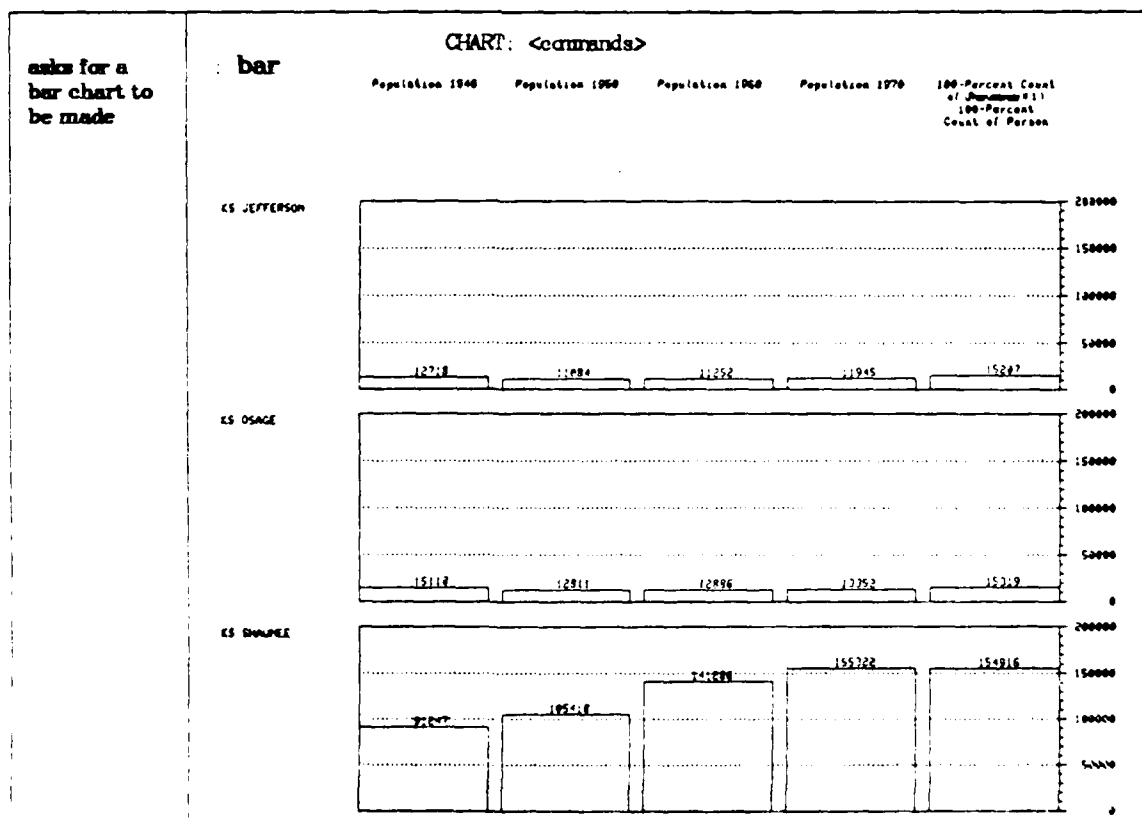
	Populatio n 1940	Populatio n 1950	Populatio n 1960	Populatio n 1970	Land Area Square Miles	1940	Housing Units 1950	1960	1970	100-Perce nt of Person in Standard Metropolitan Area	100-Perce nt of Person in Standard Metropolitan Area
KS JEFFERSON	12718	11084	11252	11945	549	4627	3828	3862	4955	15297	5817
KS OSAGE	15118	12811	12886	13352	721	5007	4462	4788	4898	15319	6152
KS SHAWNEE	91247	105418	141286	155322	545	28000	33917	46015	51929	154916	64446

In this section, we show how to create a bar chart.

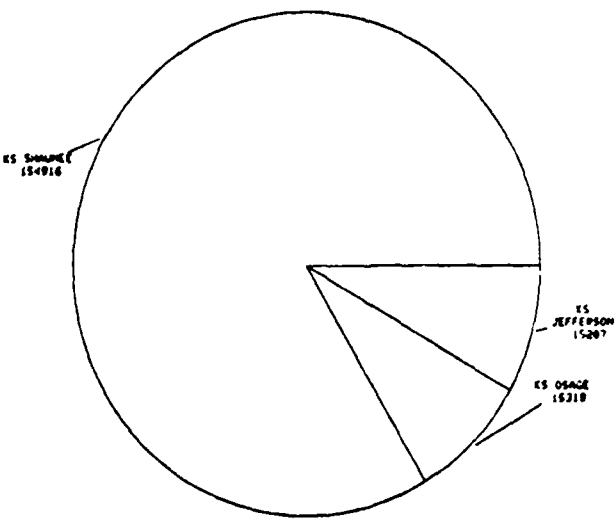
First, to have a reasonable bar chart of comparable data we mask out all but the 1940, 1950, 1960, 1970, and 1980 housing unit data.

masks out unwanted columns	CHART: <commands>					
	: mask col 5-9 11					
		Population 1940	Population 1950	Population 1960	Population 1970	100-Percent Count Unmask (for 100-Percent Count of Person
	KS JEFFERSON	12718	11094	11252	11945	15267
	KS OSAGE	15118	12811	12896	13752	15319
	KS SHAWNEE	91247	105418	141206	155322	154916

Then a bar chart may be drawn by simply typing the command "bar." The images shown were reduced from Tektronix hard-copy output.



Similar simple default pie charts can be produced with the command "pie."

turns off plot display	: plot none	CHART: <commands>
asks for 1980 population column	: window col 5	CHART: <commands>
	: plot report	CHART: <commands>
		100-Percent Count of Persons (1) Universal 100-Percent Count of Person
	KS JEFFERSON KS OSAGE KS SHALWEE	15207 15319 154916
asks for a pie chart to be made	: pie	CHART: <commands>
		100-Percent Count of Persons (1) Universal 100-Percent Count of Person
		
finishes chart module	: quit	

Map Making

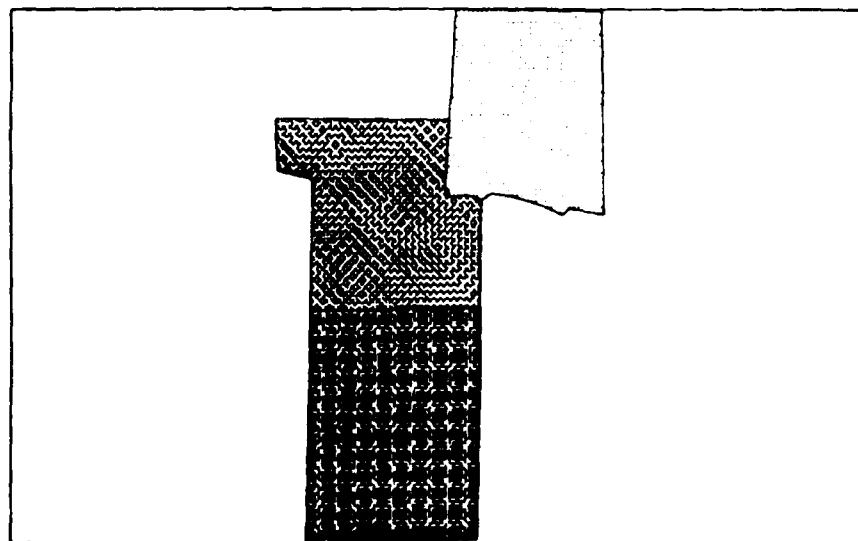
SEEDIS has a wide variety of map-making capabilities. The example below illustrates the simplest default map produced automatically for the extracted data on a Tektronix 4014 terminal and associated hard-copy device.

user enters mapping module	: display	
	: device	DISPLAY: chart, list, map, plot, device
	: 4014	DISPLAY/TERMINAL: <graphic output device>
	: map	DISPLAY: chart, list, map, plot, device
		CARTE: <commands>
		CCDBC0012
		#Population 1940#
		OVER 91200 1
		15100 - 91200 1
		12800 - 15100 0
requests default map		UNDER 12800 1
		DATA NOT AVAILABLE 0
		Type 'go' to see the map.
	: go	

Note: when
the user
types "go",
the screen
clears and
the map
appears

	OVER 91,200
	15,100 - 91,200
	12,800 - 15,000
	UNDER 12,800

Population 1940



Ending A SEEDIS Session

Since the geographic area list and working data file are automatically stored in the user's current working directory, he can terminate a SEEDIS session and resume work at a later time. The user in our example below types a succession of "quit" commands to leave the map, display, and SEEDIS modules respectively, and then "logout" to terminate the VMS computer session. The next time the user logs onto VMS and enters SEEDIS he can type "review" to be reminded of what has already been specified, and then select additional data or proceed directly to display and analysis.

user finishes map module	: quit	
finishes data display	: quit	DISPLAY: chart, list, map, plot, device
finishes using SEEDIS	: quit	SEEDIS: area, data, display, profile
leaves VMS	: logout	
		ARMYCORPS logged out at 09-SEP-1985 16:07:43.47

Advanced Features

This concludes the description of the beginning features of SEEDIS. The next sections describe intermediate features of SEEDIS, including scheduling disk packs for off-line data, entering new data into SEEDIS work files, computing derived values and advanced charts, and transforming SEEDIS work files into equivalent files which are readable by SPSS and LOTUS 1-2-3.

Scheduling disk packs containing SEEDIS data

Since the amount of data archived in SEEDIS is around 5 billion data values, it sometimes happens that the particular data file that a user wishes to retrieve is not currently on-line, but is stored on a magnetic disk pack. In this case the particular pack containing the data must be scheduled in advance. The purpose of this section is to show how this might be done.

Disk pack scheduling is done outside SEEDIS, using a utility program called **dsched**. The following screens show how to schedule two disk packs, CENSAGR001 which contains the 1982 U.S. Census of Agriculture, and CENS80005 which contains PLACE80 data for the 1980 Census STF3.

We begin by assuming that the user has logged in on a Tuesday, and finding that his data is not currently on-line, wishes to schedule it for Wednesday, seeking first to retrieve Census of Agriculture data in the morning (Pacific Time) and place data for the 1980 Census on Wednesday afternoon. Before you begin, you should have quit out of SEEDIS and be back to the computer's dollar sign (\$) prompt:

User invokes dsched utility Asks to see the Wednesday schedule	\$ dsched Which day's schedule do you wish to see ? Mon,Tue,....Fri,or Quit ? wed Old small disks or New big disks [old/new] ? new Private pack schedule - big disks - LBLH & LBLG wednesday 16-oct-1985			
	LBLH-DRC6	LBLH-DRC7	LBLG-DRC2	LBLG-DRC3
	morning (1) 0830-1200	(2) seed:s005 gey (system)	(3)	(4) blk system disk
	afternoon (5) 1200-1830	(6) seed:s005 gey (system)	(7)	(8) blk system disk
evening (9) 1830-0400	(a) seed:s005 gey (system)	(b)	(c) blk system disk	
Schedules CENSAGR001 in slot 1 puts his username and system mount	Select reservation slot by number, 1-c To see another day enter 0 Slot: 1 Pack name (or slot # if same as other): censagr001 Your username: armycorps System mounted (y/n)? y censagr001 armycorps (system) Slot: 0			

In the above example, two items are important to note. First, all SEEDIS disks are on the big disks (called *new*), and thus this scheduling option should always be chosen. Second, the "system mounted (y/n)?" query should always be answered *y* so that the SEEDIS pack can be accessed by all other SEEDIS users (and not just the person who scheduled it).

The following screen looks at Wednesday again, both to confirm that CENSAGR001 has been scheduled correctly, and to schedule the CENS80005 disk pack.

Which day's schedule do you wish to see ?				
Mon, Tue, ..., Fri, Quit, or <CR> for other disks ? wed				
Old small disks or New big disks [old/new] ? n				
Private pack schedule - big disks - LBLH & LBLG wednesday 16-oct-1985				
	LBLH-DRC6	LBLH-DRC7	LBLG-DRC2	LBLG-DRC3
morning (1) 0830-1200	censagr001 armycorps (system)	(2) seedis005 gey (system)	(3)	(4) lblk system disk
afternoon (5) 1200-1630		(6) seedis005 gey (system)	(7)	(8) lblk system disk
evening (9) 1630-0400		(a) seedis005 gey (system)	(b)	(c) lblk system disk
Select reservation slot by number, 1-c To see another day enter 0 Slot: 5 Pack name (or slot # if same as other): cens80005 Your username: armycorps System mounted (y/n)? y cens80005 armycorps (system) Slot: 0				

Zero goes to new day

It is worthwhile to repeat the examination of the Wednesday schedule in order to confirm that the correct pack has been entered for the proper time slot.

Which day's schedule do you wish to see ?				
Mon, Tue, ..., Fri, Quit, or <CR> for other disks ? wed				
Old small disks or New big disks [old/new] ? n				
Private pack schedule - big disks - LBLH & LBLG wednesday 16-oct-1985				
	LBLH-DRC6	LBLH-DRC7	LBLG-DRC2	LBLG-DRC3
morning (1) 0830-1200	censagr001 armycorps (system)	(2) seedis005 gey (system)	(3)	(4) lblk system disk
afternoon (5) 1200-1630	cens80005 armycorps (system)	(6) seedis005 gey (system)	(7)	(8) lblk system disk
evening (9) 1630-0400		(a) seedis005 gey (system)	(b)	(c) lblk system disk
Select reservation slot by number, 1-c To see another day enter 0 Slot: 0				

Entering New Data Into SEEDIS Work Files

It often happens that the user of a data archive (such as SEEDIS) has available, from published or private sources, more recent data than is in the system. SEEDIS, through the NEWDATA module, provides a mechanism by which user data may be entered and integrated into the SEEDIS work file. This feature allows user-supplied data to be used with the chart-making and map-making routines within SEEDIS.

In the following example, the SEEDIS user has obtained the Census bureau publication CAO-82-13 *Housing Units Authorized by Building Permits and Public Contract: Annual 1982*, which on Pages 126 and 130 has new private housing authorized in 1981 and 1982 for communities in Jefferson and Shawnee counties in Kansas. Data for Osage County are not available. The user adds up the data to obtain county totals:

	1981	1982
Jefferson	40	40
Shawnee	360	361

These data will be entered into SEEDIS.

user has re-entered SEEDIS and typed 'data'	newdata	DATA: <database code>, extract, newdata, query, model
	?	NEWDATA: <data name>
	Input	Response
	<data name>	append to current list of data names
?	?	list commands available in this menu
	help	describe how to enter list of data names
	show	[no effect]
	review	display current list of data names
	cancel	erase current list of data names
	quit	recess newdata session
	help	NEWDATA: <data name>
		ENTERING NEW DATA NAMES
		You must enter a different name for each data item that is to be given values. A data name can be up to 16 characters in length (counting internal blanks). These names will be used as prompts as you enter data values, so more than 16 characters may be used to enhance the prompts. Enter one name per line and enter CR to terminate the list of names.
		You can interrupt your Newdata session at any point merely by typing "quit". Everything you have typed previously will be preserved, and you can resume where you leave off when you next login to SEEDIS
		NEWDATA: <data name>
	newhou81	
Carriage return ends definition	newhou82	
	CR	

Once the data names have been entered into NEWDATA, the user is prompted to enter values for each area associated with his work file

user prompted for Jefferson County	<p>Enter: newhou81 newhou82 KS JEFFERSON:</p> <p>NEWDATA: <data value(s)>, missing</p>
: ?	
Input	Response
<value(s)> missing	assign value(s) to corresponding data name(s) assign value "Nil" to corresponding data name
?	list commands available in this menu
help	describe entering data values
show	[no effect]
review	[no effect]
cancel	[no effect]
quit	recess newdata session
	<p>Enter: newhou81 newhou82 KS JEFFERSON:</p>
: help	<p>NEWDATA: <data value(s)>, missing</p> <p>ENTERING NEW DATA VALUES</p> <p>You must supply a data value for every new data item being added. Enter data values on separate lines or separated by blanks (if more than one data value per line). Observe the following conventions:</p> <p>Enter the word "missing" to indicate missing data.</p> <p>Use quotes (e.g., "New Orleans") to enter text strings which contain blanks.</p> <p>Use quotes (e.g., "?", "quit") to enter reserved symbols as text strings.</p> <p>Use double quotes (e.g., "I said ""Hello""") inside of quoted text strings.</p> <p>You can interrupt your Newdata session at any point merely by typing "quit". Everything you have typed previously will be preserved, and you can resume where you leave off when you next login to SEEDIS.</p>

As with other portions of SEEDIS, typing the global command **help** will provide the user with assistance.

data entered for Jefferson	Enter: newhou81 newhou82 KS JEFFERSON: NEWDATA: <data value(s)>, missing Enter: newhou81 newhou82 KS OSAGE: NEWDATA: <data value(s)>, missing
missing data entered for Osage County	missing missing Enter: newhou81 newhou82 KS SHAWNEE: NEWDATA: <data value(s)>, missing
data for Shawnee County	360 361 Data entry completed. SEEDIS file written.
quit	DATA: <database code>, extract, newdata, query, model

display	SEEDIS: area, data, display, profile																																													
list	DISPLAY: chart, list, map, plot, device																																													
type	DISPLAY/LIST: page, type, print																																													
	<table border="1"> <thead> <tr> <th></th> <th>FIPS STATE</th> <th>FIPS COUNTY</th> </tr> </thead> <tbody> <tr> <td>KS JEFFERSON</td> <td>20</td> <td>087</td> </tr> <tr> <td>KS OSAGE</td> <td>20</td> <td>139</td> </tr> <tr> <td>KS SHAWNEE</td> <td>20</td> <td>177</td> </tr> <tr> <td></td> <td>CCDBC0012</td> <td>CCDBC0013</td> </tr> <tr> <td></td> <td>Population 1940</td> <td>Population 1950</td> </tr> <tr> <td>KS JEFFERSON</td> <td>12718</td> <td>11084</td> </tr> <tr> <td>KS OSAGE</td> <td>15118</td> <td>12811</td> </tr> <tr> <td>KS SHAWNEE</td> <td>91247</td> <td>105418</td> </tr> <tr> <td></td> <td>CCDBC0014</td> <td>CCDBC0015</td> </tr> <tr> <td></td> <td>Population 1960</td> <td>Population 1970</td> </tr> <tr> <td>KS JEFFERSON</td> <td>11252</td> <td>11945</td> </tr> <tr> <td>KS OSAGE</td> <td>12886</td> <td>13352</td> </tr> <tr> <td>KS SHAWNEE</td> <td>141266</td> <td>155322</td> </tr> <tr> <td></td> <td>CCDBC0001</td> <td>CCDBC0263</td> </tr> </tbody> </table>		FIPS STATE	FIPS COUNTY	KS JEFFERSON	20	087	KS OSAGE	20	139	KS SHAWNEE	20	177		CCDBC0012	CCDBC0013		Population 1940	Population 1950	KS JEFFERSON	12718	11084	KS OSAGE	15118	12811	KS SHAWNEE	91247	105418		CCDBC0014	CCDBC0015		Population 1960	Population 1970	KS JEFFERSON	11252	11945	KS OSAGE	12886	13352	KS SHAWNEE	141266	155322		CCDBC0001	CCDBC0263
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KS SHAWNEE	141266	155322																																												
	CCDBC0001	CCDBC0263																																												

	Land Area in Square Miles 1940	Housing Units 1940
KS JEFFERSON	549	4027
KS OSAGE	721	5007
KS SHAWNEE	545	28009
	CCDBC00284	CCDBC00285
	Housing Units 1950	Housing Units 1960
KS JEFFERSON	3839	3862
KS OSAGE	4462	4788
KS SHAWNEE	33917	46015
	CCDBC00286	TAB3(1)
	Housing Units 1970	100-Percent Count of Persons 100-
KS JEFFERSON	4055	15207
KS OSAGE	4898	15319
KS SHAWNEE	51929	154916
	TAB6(1)	NEWHOU81
	100-Percent Count of Housing Units	newhou81
KS JEFFERSON	5817	40
KS OSAGE	6152	-9
KS SHAWNEE	34446	360
	NEWHOU82	
	newhou82	
KS JEFFERSON	40	
KS OSAGE	-9	
KS SHAWNEE	361	
	DISPLAY/LIST: page, type, print	
: quit		

Computation Using Chart

Computing 1983 Estimated Housing Units

This section demonstrates the use of the CHART system to compute new values from existing SEEDIS data, and to do analytical tasks deriving information from the data. Specifically, we will use the data entered with the NEWDATA module to estimate 1983 housing units. Following that we will use the system to compute percent change in housing units over four decades (1940-1980).

<p>Invoke the CHART system</p>	<p>chart</p> <p>DISPLAY: chart, list, map, plot, device</p> <p>NEWDATA.</p> <p>21-DEC-84</p> <p>Table size is 3 rows by 13 columns. For tables larger than one screenful see "help table size"</p> <p>plot report</p> <p>CHART: <commands></p> <p>(insert paste up screen c-1 here)</p>
<p>Masks out the population columns to concentrate on housing</p>	<p>mask col 1-5 10</p> <p>(insert paste up screen c-2 here)</p>

Narrow down to 1980 units, and permits authorized	mask col 1-4			
	NEWDATA. 100-Percent Count of Housing Units (Including Vacant Seasonal and	newdata81	newdata82	
	KS JEFFERSON 5817	40	40	
	KS OSAGE 6152			
	KS SHAWNEE 6446	360	361	
Sum 1980 housing units with 1981-1982 authorized	insert col			
	TYPE LABEL ON ONE LINE, THEN 3 DATA VALUES ON NEXT LINES. TYPE A BLANK LINE TO EXIT.			
Carriage Return ends input and computation	COL 4			
	1983 Housing units =col1+col2+col3			
	COL 5			
	CR			
	NEWDATA. 100-Percent Count of Housing Units (Seasonal and	newdata81	newdata82	1983 Housing Units
	KS JEFFERSON 5817	40	40	5897
	KS OSAGE 6152			6152
	KS SHAWNEE 6446	360	361	65167

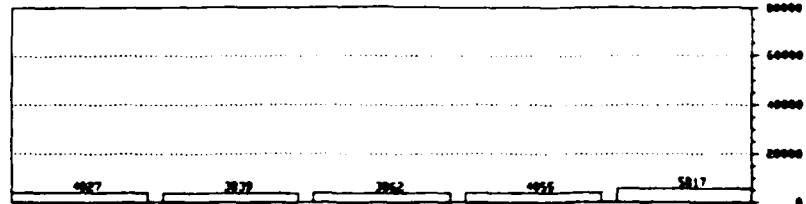
The next two pages demonstrate elementary formatting commands for the CHART system, including removing the grid on a bar chart, replacing a column label with a more readable one, and shading a chart with a cross-hatched grid.

The 'backup' command restores the masked columns	backup				
	mask col 1-5 10 12-13				
	plot report				
	NEWDATA.	1940	1950	Housing Units 1960	1970
	100-Percent Count of Housing Units (Seasonal and				
	KS JEFFERSON 4627	2039	3862	4955	5817
	KS OSAGE 5007	4462	4788	4898	6152
	KS SHAWNEE 20009	37917	46015	51929	64446

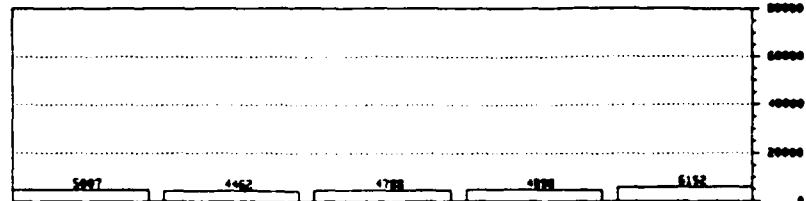
bar

REDATE. 1940 1950 Housing Units 1960 1970 100-Percent Count of Housing Units Vacant Seasonal and

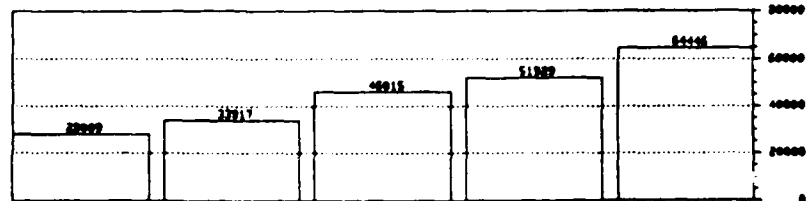
KS JEFFERSON



KS OSAGE



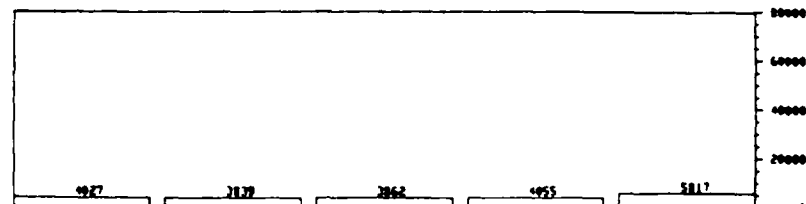
KS SHAWNEE



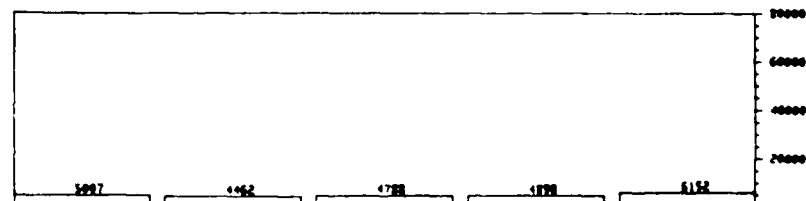
grid none

REDATE. 1940 1950 Housing Units 1960 1970 100-Percent Count of Housing Units Vacant Seasonal and

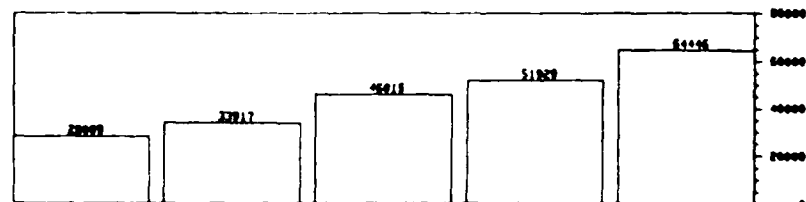
KS JEFFERSON



KS OSAGE

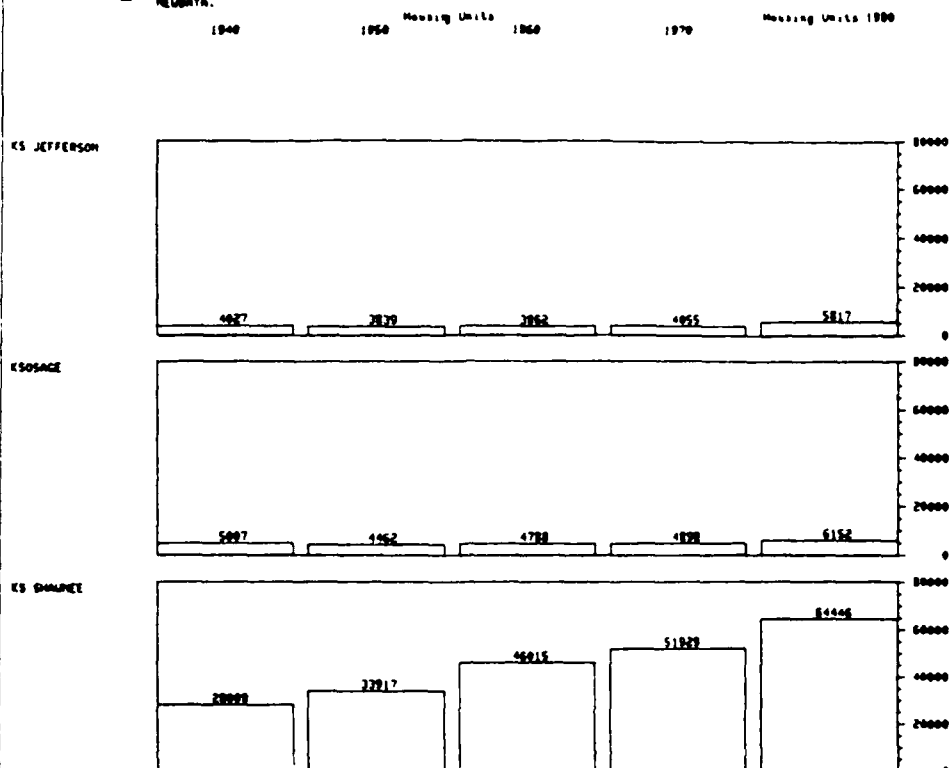


KS SHAWNEE



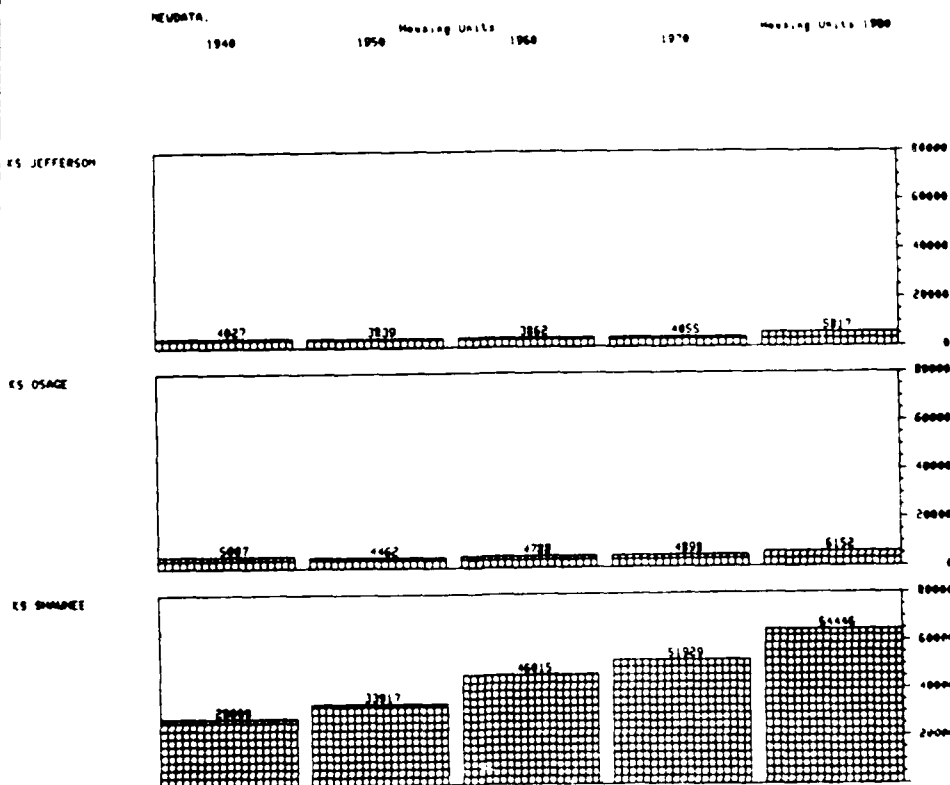
Replace the
SEEDIS
dictionary
label with
our own

replace label col 5
TYPE LABEL ON ONE LINE FOR COL 5
Housing Units 1980
NEUDATA.



Shades the
graph with
density
between 0
and 1

shade .5

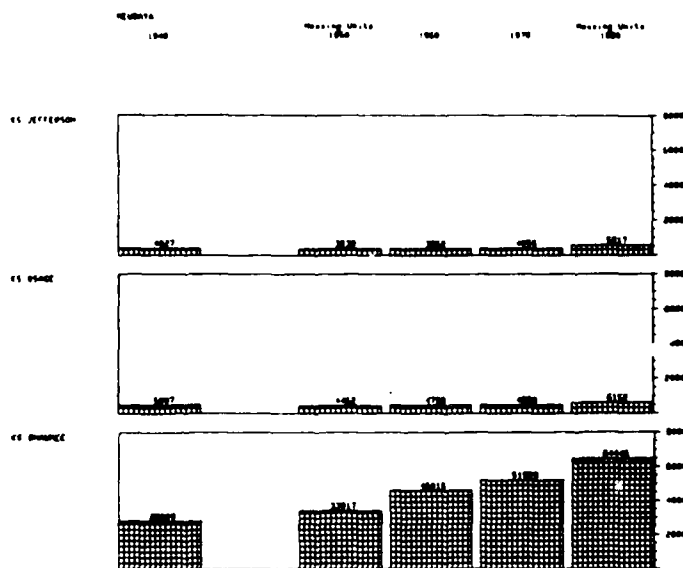


Using the CHART 'profile' command

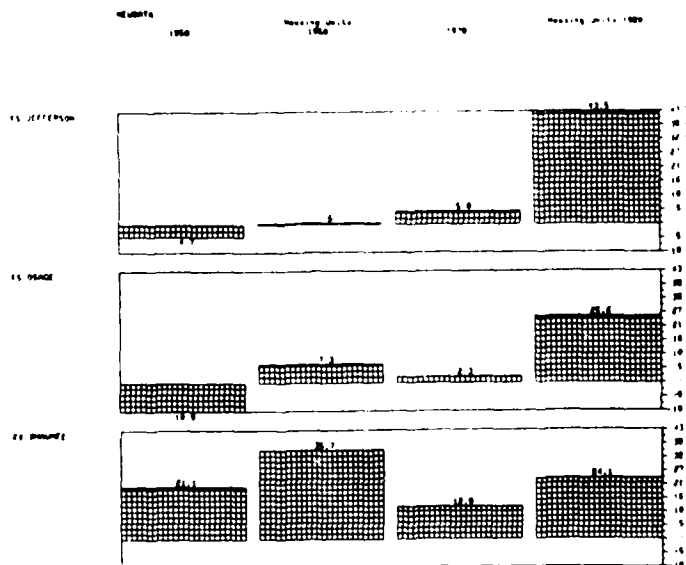
This final page demonstrates the power of CHART commands which can apply computation to all columns of a table simultaneously. In this case CHART will compute and display (profile) the percent change in housing units from 1940 to 1980.

The
'reference'
command
chooses a
base for the
computation

```
: reference col previous
```



```
: profile column percent change
```



```
quit
```

```
quit
```

```
quit
```

```
$
```

DISPLAY: chart, list, map, plot, device

SEEDIS area, data, display, profile

Transforming SEEDIS Work Files

During Fiscal Year 1984, LBL implemented a number of tools for *transforming* SEEDIS work files into self-describing files readable by other software. This helps facilitate downloading of files to microcomputers for analysis and display using software available there, or for export to other computers for use with widely available statistical software. This writeup will demonstrate the use of tools to transform to the SPSS (Statistical Package for the Social Sciences) input data format, and to the DIF (Data Interchange Format) format used by many microcomputer spreadsheet programs.

SEEDIS Work File (CODATA.DAT) Format

When a SEEDIS user types the "extract" command, a SEEDIS work file is created which contains only those areas he has specified with the AREA module, and only those data elements he has specified within the DATA module. This file resides in the user's space and has the name "CODATA.DAT" (the term "codata" stands for "common data", a format which is readable and writeable by the many modules within SEEDIS). Codata files are eye-readable character text files containing two logical parts: the data description file (DDF) and the data file (DF). The DDF contains file-level information about the number of geographic areas and the number of data elements. It also contains information about each data element, including a short name, a descriptive label, data type (integer, decimal, or alphanumeric), field length, and location in the record. This is schematically described in the following table:

Schematic Diagram of CODATA File Format

	<i>Data Definition File (DDF)</i>		<i>file info....</i>
	<i>de 1 info</i>	<i>de 2 info</i>	<i>...de n info</i>
	<i>Data File (DF)</i>		
<i>record 1</i>	<i>de 1 value</i>	<i>de 2 value</i>	<i>...de n value</i>
<i>record 2</i>	<i>de 1 value</i>	<i>de 2 value</i>	<i>...de n value</i>
<i>record 3</i>	<i>de 1 value</i>	<i>de 2 value</i>	<i>...de n value</i>
<i>.</i>			
<i>.</i>			
<i>record m</i>	<i>de 1 value</i>	<i>de 2 value</i>	<i>...de n value</i>

With this background in mind, the user can use the VAX *type* command to actually look at his SEEDIS work file, as shown below.

DDF Data
Definition
Files begins
here

```
$ type codata.dat
NDE = 16
AREAS = 3
CAROLENGTH = 70
MISSING = -9.000000000 -9.000000000
FILE =#NEWDATA.#
FILE =#17-AUG-84#
*LEVEL = COUNTY
DE = FIPS.STATE
  TYPE = A
  USE = K
  START = 1
  LENGTH = 2
DE = FIPS.COUNTY
  TYPE = A
  USE = K
  START = 4
  LENGTH = 3
DE = STUB.GEO
  TYPE = A
  USE = S
  START = 8
  LENGTH = 33
DE = CCDBC0012
  TYPE = I
  USE = D
  START = 42
  LENGTH = 9
  HEADER =#Population 1940#
DE = CCDBC0013
  TYPE = I
  USE = D
  START = 52
  LENGTH = 9
  HEADER =#Population 1950#
DE = CCDBC0014
  TYPE = I
  USE = D
  START = 62
  LENGTH = 9
  HEADER =#Population 1960#
DE = CCDBC0015
  TYPE = I
  USE = D
  START = 71
  LENGTH = 9
  HEADER =#Population 1970#
DE = CCDBC0001
  TYPE = I
  USE = D
  START = 81
  LENGTH = 9
  HEADER =#Land Area in#
  HEADER =#Square Miles#
  HEADER =#1940#
DE = CCDBC0283
  TYPE = I
  USE = D
  START = 91
  LENGTH = 9
  HEADER =#Housing Units#
  HEADER =#1940#
```

```

DE = CCDBC0284
TYPE = I
USE = D
START = 101
LENGTH = 9
HEADER = #Housing Units#
HEADER = #1950#
DE = CCDBC0285
TYPE = I
USE = D
START = 111
LENGTH = 9
HEADER = #Housing Units#
HEADER = #1960#
DE = CCDBC0286
TYPE = I
USE = D
START = 121
LENGTH = 9
HEADER = #Housing Units#
HEADER = #1970#
DE = TAB3(1)
TYPE = I
USE = D
START = 131
LENGTH = 9
HEADER = #100-Percent Count of Persons (1)#
HEADER = #Universe: 100-Percent Count of Persons#
DE = TAB3(1)
TYPE = I
USE = D
START = 141
LENGTH = 9
HEADER = #100-Percent Count of Housing Units #
HEADER = #((Including Vacant Seasonal and #
HEADER = #Migratory Units (1)#
HEADER = #Universe: 100-Percent Count of Housing #
HEADER = #Uni#
DE = NEWHOU81
TYPE = I
USE = D
START = 151
LENGTH = 5
HEADER = #newhou81#
DE = NEWHOU82
TYPE = I
USE = D
START = 157
LENGTH = 5
HEADER = #newhou82#
END DDF

```

Data File
(DF) begins
here

20	087	KS	JEFFERSON			12718	11084	11252
	11945		549	4027	3839	3862	4055	15207
	5817	40	40					
20	139	KS	OSAGE			15118	12811	12886
	13352		721	5007	4462	4788	4898	15319
	6152	-9	-9					
20	177	KS	SHAWNEE			91247	105418	141286
	155322		545	28009	33917	46015	51929	154916
	64446	360	361					

Using the Transformation Tools

There are three tools to use to transform the SEEDIS work file (CODATA.DAT) into an export file format: *COSPSS* to transform into an SPSS input deck, *CODIF* to transform into a spreadsheet DIF file form, and *COSAS* to transform into a SAS input deck. The first two of these tools will be demonstrated; the third works in a similar fashion. All of the tools are used *outside* of SEEDIS, i.e. directly from the "\$" prompt.

Following the conventions of the UNIX operating system and the software tools, the transformation tools operate on a single input file (usually CODATA.DAT) and produce a single output file. The input file name is immediately preceded by a "<" (left angle bracket) and the output file is immediately preceded by a ">" (right angle bracket). Thus the entire command is of the form:

\$ tool <inputfile >outputfile

After the user has typed the command to invoke the tool, the transformed file "outputfile" should be in his workspace. The next example shows how to make an SPSS file from the sample CODATA file.

Start with 'cotools' to invoke the transformation tools	<pre> \$ cotools For CODATA tools documentation, type: cotool For latest test version, type: cotest \$ cospss <codata.dat >codata.sps \$ type codata.sps run name create spss variable list AAFIPSSST ABFIPSCO ACSTUBGE ADCCDBCO AECCDBCO AFCCDBCO AGCCDBCO AHCCDBCO AICCCDBCO AJCCDBCO AKCCDBCO ALCCDBCO AMTAB31 ANTAB61 AONEWHOU APNEWHOU var labels AAFIPSSST, var labels ABFIPSCO, var labels ACSTUBGE, var labels ADCCDBCO, Population 1940 comment # var labels AECCDBCO, Population 1950 comment # var labels AFCCDBCO, Population 1960 comment # var labels AGCCDBCO, Population 1970 comment # var labels AHCCDBCO, Land Area in Square Miles 1940 comment #Square Mile comment #Square Mile comment Area var labels AICCCDBCO, Housing Units 1940 comment #1940 # comment ng Un var labels AJCCDBCO, Housing Units 1950 comment #1950 # comment ng Un var labels AKCCDBCO, Housing Units 1960 comment #1960 # comment ng Un var labels ALCCDBCO, Housing Units 1970 comment #1970 # comment ng Un var labels AMTAB31 , 100-Percent #100-Percent C#100-Percent C comment #100-Percent Count of Person comment #100-Percent Count of Person comment Percent Count of Persons#100-Perc </pre>
---	--


```

var labels      ANTAB61 , 100-Per# (incl# Migra#100-Per# Units
comment        # (Including Vacant Seasonal and#
               nits# (Including Vacant Seaso
               t of Housing Uni
               Units# (Including Vacant S
               unt of Housing
var labels      AONEWHOU, newhou81
comment        #
var labels      APNEWHOU, newhou82
comment        #
input medium    card
n of cases      3
missing values  AAFIPSSST("-9")/
               ABFIPSCO("-9")/
               ACSTUBGE("-9")/
               ADCCDBCO(-9 )/
               AECCDBCO(-9 )/
               AFCCDBCO(-9 )/
               AGCCDBCO(-9 )/
               AHCCDBCO(-9 )/
               AICCCDBCO(-9 )/
               AJCCDBCO(-9 )/
               AKCCDBCO(-9 )/
               ALCCDBCO(-9 )/
               AMTAB31 (-9 )/
               ANTAB61 (-9 )/
               AONEWHOU(-9 )/
               APNEWHOU(-9 )
print formats   AAFIPSSST(A)/
               ABFIPSCO(A)/
               ACSTUBGE(A)/
               ADCCDBCO(3)/
               AECCDBCO(3)/
               AFCCDBCO(3)/
               AGCCDBCO(3)/
               AHCCDBCO(3)/
               AICCCDBCO(3)/
               AJCCDBCO(3)/
               AKCCDBCO(3)/
               ALCCDBCO(3)/
               AMTAB31 (3)/
               ANTAB61 (3)/
               AONEWHOU(3)/
               APNEWHOU(3)
input format    freefield
condescriptive all
statistics      all
read input data
'20','087','KS J',12718,11084,11252,11945,549,4027,3839,3862,4055,15207,5817,40,
40
'20','139','KS O',15118,12811,12886,13352,721,5007,4462,4788,4898,15319,6152,-9,
-9
'20','177','KS S',91247,105418,141286,155322,545,28009,33917,46015,51929,154916,
64446,360,361
finish
$

```

Creating a DIF file

In a similar fashion, use of the *CODIF* tool will transform a *codata.dat* work file into the microcomputer spreadsheet interchange format known as "DIF." The DIF format is somewhat arcane and space consuming, and hence not all of it is shown in this document. Files such as this have been tested by loading them into the LOTUS 1-2-3 spreadsheet package.

```
$ codif -h <codata.dat >codata.dif
$ type codata.dif
TABLE
0,1
"CODATA"
VECTORS
0,16
""
TUPLES
0,8
""
LABEL
1,1
"DE=FIPS.STATE"
LABEL
2,1
"DE=FIPS.COUNTY"
LABEL
3,1
"DE=STUB.GEO"
LABEL
4,1
"DE=CCDBC0012"
LABEL
5,1
"DE=CCDBC0013"
LABEL
6,1
"DE=CCDBC0014"
LABEL
7,1
"DE=CCDBC0015"
LABEL
8,1
"DE=CCDBC0001"
LABEL
9,1
"DE=CCDBC0283"
LABEL
10,1
"DE=CCDBC0284"
LABEL
11,1
"DE=CCDBC0285"
LABEL
12,1
"DE=CCDBC0286"
LABEL
13,1
"DE=TAB3(1)"
LABEL
14,1
"DE=TAB6(1)"
```

The **-h** flag in the **codif** command line serves to make the SEEDIS headers into data lines which will be displayed as column headers in the LOTUS spreadsheet.

	LABEL
	15,1
	"DE=NEWHOU81"
	LABEL
	16,1
	"DE=NEWHOU82"
	DATA
	0,0
	""
	-1,0
	BOT
	1,0
	""
	1,0
	""
	1,0
	""
	1,0
	"#Population 1940#"
	1,0
	"#Population 1950#"
	1,0
	"#Population 1960#"
	1,0
	"#Population 1970#"
	1,0
	"#Land Area in#"
	1,0
	"#Housing Units#"
	1,0
	"#Housing Units#"
	1,0
	"#Housing Units#"
	1,0
	"#Housing Units#"
	1,0
	"#100-Percent Count of Persons#"
	1,0
	"#100-Percent Count of Housing Units#"
	1,0
	"#newhou81#"
	1,0
	"#newhou82#"
	-1,0
Some definition not shown	.....

	1,0
	"#Square Miles#"
	1,0
	"#1940#"
	1,0
	"#1950#"
	1,0
	"#1960#"
	1,0
	"#1970#"
	1,0
	"#100-Percent Count of Persons#"
	1,0
	"# (Including Vacant Seasonal and#"

Beginning of actual data	BOT
	1,0
Jefferson County data	"20"
	1,0
	"087"
	1,0
	"KS JEFFERSON"
	0,12718
	V
	0,11084
	V
	0,11252
	V
	0,11945
	V
	0,549
	V
	0,4027
	V
	0,3839
	V
	0,3862
	V
	0,4055
	V
	0,15207
	V
	0,5817
	V
	0,40
	V
	0,40
	V
	-1,0
Osage County data	BOT
	1,0
	"20"
	1,0
	"139"
	1,0
	"KS OSAGE"
	0,15118
	V
	0,12811
	V
	0,12866
	V
	0,13352
	V
	0,721
	V
	0,5007
	V
	0,4462
	V
	0,4788
	V
	0,4898
	V
	0,15319
	V
	0,6152
	V
	0,-9
	V
	0,-9
	V
	-1,0

Shawnee County data	BOT
	1.0
	"20"
	1.0
	"177"
	1.0
	"KS SHAWNEE"
	0.91247
	V
	0.105418
	V
	0.141286
	V
	0.155322
	V
	0.545
	V
	0.28009
	V
	0.33917
	V
	0.46015
	V
	0.51929
	V
	0.154916
	V
	0.64446
	V
	0.360
	V
	0.361
	V
	-1.0
	EOD

Using KERMIT to transfer SEEDIS data files

This section shows how the KERMIT file transfer program can be used to send SEEDIS data files from a SEEDIS VAX computer to a personal computer such as the IBM-PC. KERMIT is a public domain error-correcting, file transfer program developed by the Columbia University Computing Facility. This means that data files can be sent across noisy telephone lines and errors in data receiving are identified and the data is re-sent until it is received correctly on the other end. Another way of capturing SEEDIS data file might be to use the logging facility of a commercially available software package such as CROSSTALK. However, the logging may also capture extra characters which derive from telephone line noise.

For further information on KERMIT, read the June and July 1984 issues of BYTE magazine.

User invokes
KERMIT from
drive A of his
PC, sets baud
rate to
desired
speed, dials
to SEEDIS
computer

```
A> kermit
IBM-PC Kermit-MS ver 2.28
Type ? for help
Kermit-MS> set baud 1200
Kermit-MS> connect
[Connecting to host, type Control-]C to return to PC
Baud rate is 1200, connecting over port COM1]
(carriage return)
```

LBLH - CSR VAX/VMS

Username: ARMYCORPS
Password:

Welcome to LBLH - CSR VMS V4.2 VAX 11/780

Last interactive login on Wednesday, 4-DEC-1985 12:51

Last non-interactive login on Wednesday, 20-NOV-1985 13:18

1 failure since last successful login

System Shutdown: None scheduled

Disk usage for [212,027] 11739 used / 20000 maximum

You have Software Tools mail - use 'mrsg' to read

9/25/85 1982 Census of Agriculture

A new database (code CZ) has been installed in SEEDIS. It provides the 1982 U.S. Census of Agriculture with many comparable items from the 1978 agricultural census. Over 3,500 items are available for each STATE and COUNTY in the U.S. It requires the mounting of the disk pack CENSAGR001. There are some known spelling errors in the data dictionary which will be corrected soon.

7/10/85 1983 County & City Data Book

The 1983 County and City Data Book has been installed in SEEDIS. The county portion is database code CX, currently available at COUNTY80 level of geography, and includes information from the 1978 Census of Agriculture and the 1977 Business and Government censuses. The city portion (for cities with population greater than 25,000) has different data and hence is given a different database code CY. It is available at the PLACE80 level of geography. For further information on either database, contact Fred Gey (FIS 451-6208) or Esther Schroeder (FIS 451-5306)

If you have questions or problems using SEEDIS or want to obtain printed output, please call Mona Elnowski or Ann Gerken at (415) 642-6571 or (FIS) 415-642-6571.

What's your last name ?

gey

Thank you gey

\$

At this point the user can perform any operations he wishes to on the VAX computer, including invoking SEEDIS and retrieving data, converting work files to SPSS, DIF files, etc. When the user wants to send these files to his microcomputer, another KERMIT process on the VAX must be invoked. For reliable file transfer, there must be two KERMIT programs -- one on each machine -- which "talk" to each other according to a "protocol" in which each package of data sent is checked and acknowledged as having been received without errors. KERMIT on the VAX is initiated with the command (after the \$ prompt):

```
mcr kermit
```

KERMIT on the VAX responds with the prompt

```
Kermit-32>
```

which is what distinguishes it from the IBM-PC version of KERMIT (the latter uses the prompt Kermit-MS>). Once the user gets the "Kermit-32>" prompt he can issue the "send" command to transmit a file.

User sends all CODATA files (. * means all)	<pre>\$ mcr kermit VMS Kermit-32 version 3.0.051 Default terminal for transfers is. _TX37. Kermit-32>send codata.*</pre>
--	---

Once the command to send files has been given to KERMIT32, the user must notify the KERMIT on his microcomputer to receive the data. This is done by an unusual sequence of characters (the **CTRL** key and the **]** (right bracket) key simultaneously, followed by the **c** key). This sequence is *not* echoed back to the user.

When the prompt Kermit-MS> is given, the user can start data transfer by typing the single word "receive." At this point the user's microcomputer will clear the screen and begin receiving data, informing the user of the progress in sending data "as it happens." When all data files have been received, the Kermit-MS> prompt will appear again, and the user should re-open his connection to the VAX by typing "connect."

typed in but not echoed	<pre>CTRL/] C [back at micro] Kermit-MS> receive CUCCA IBM-PC Kermit-MS ver 1.20 Number of packets 57 Number of retries 0 File name CODATA.DIF Kermit-MS> connect</pre>
----------------------------	--

At this point the user can quit from the VAX version of KERMIT by typing "exit". He can then log out and return to his PC and exit from the PC version of KERMIT. The user is then ready to use his files locally on his pc.

	<pre>[Connecting to host, type Control-]C to return to PC Baud rate is 1200, connecting over port COM1) CR Kermit-32> exit s lo ARMYCORPS logged out at 5-SEP-1984 16:45:05.81 CTRL/] C [back at micro] Kermit-MS> exit A></pre>
--	---

SMALL AREA DATA - Cities and Towns

Introduction to Small Area Data

Often, in geographically-oriented studies, data summarized at the county level is too aggregate for projects having localized social and environmental impact. SEEDIS offers the capability of retrieving background profiles and extracting data elements for a number of geographical units *below* the county in size. In many cases the only data available for sub-county areas is that supplied by the Census Bureau, primarily from the decennial censuses. Thus data records are identified by geographic units defined by the Census Bureau (minor civil divisions (MCD), enumeration districts, places, census tracts). Usually the exact identification of these areas requires the use of the Census Map Series for the local areas being studied. The following is a brief summary of descriptions of areas for which census data may be retrieved from SEEDIS:

PLACE AND MINOR CIVIL DIVISION LEVELS

Level	Geographic Level Description	Year	Scope
PLACE80	Places, Census	1980	US
CYPL80	COUNTY80/PLACE80 pieces	1980	US
MCD80	Minor Civil Divisions	1980	US
	Census County Divisions		
MCDPL80	MCD80/PLACE80 pieces	1980	US

SMALLER SUBCOUNTY LEVELS

Level	Geographic Level Description	Year	Scope
EDBG80PT2	Enum Dist & Block Group pieces	1980	US
TRACT80	Census Tracts	1980	US
TRACT80PT	MCD80/PLACE80/TRACT80 pieces	1980	US

A **place** is a city or town, either incorporated or unincorporated, for which the Census Bureau has created a definition and summarized data. These definitions have changed over time (particularly from 1970 to 1980) and so SEEDIS designates the 1980 definitions of places with the geographic level **PLACE80**. There are approximately 50,000 of these defined areas (with 1 or more 1980 population) for which the Census Bureau tabulated data from the 1980 Decennial Census. SEEDIS has installed both STF1 and STF3 data for these places through the use of its *cache* system (described further in Appendix B).

In the following example the user accesses information for towns in the Topeka SMSA which were identified in the Census Bureau construction reports. The level of geography chosen is place80.

user requests seedis	\$ seedis	-----	
		WELCOME TO SEEDIS, VERSION 1.4	

		At any point in Seedis, you can type the following global commands to get these services:	
user chooses area	Input	Description	
	?	list and describe commands in this menu	
	help	describe the purpose of this menu's commands	
	show	list and explain items to be selected	
	review	list current session status and history	
	cancel	delete current selections (depends upon context)	
	quit	return to previous menu	
	*<comment>	enter a comment in Seedis log	
	control-T	check process (CPU = time in central processing unit)	
	control-Y	abort process, return to operating system	
		Please stand by. Your menu prompt will be here shortly.	
		SEEDIS: area, data, display, profile	
user selects places by name	: area	AREA: nation, state, county, county80, <other level>	
	: place80	AREA: <state>, us, us+, fr<nn>	
	: kansas	KANSAS	
		AREA: <place(s)>, all	
	: mclouth,meriden,nortonville,oskaloosa,ozawkie,valley falls	MCLOUTH CITY	
		MERIDEN CITY	
		NORTONVILLE CITY	
		OSKALOOSA CITY	
		OZAWKIE CITY	
		VALLEY FALLS CITY	
		AREA: <place(s)>, all	
	: auburn,rossville,silver lake,topeka	AUBURN CITY	
reminder that extraction uses disk cache user requests list of available data		ROSSVILLE CITY	
		SILVER LAKE CITY	
		TOPEKA CITY	
		AREA: <place(s)>, all	
	: quit	AREA: <state>, us, us+, fr<nn>	
	: quit		
		SEEDIS: area, data, display, profile	
	: data	PLACE80 level data extraction uses disk cache.	
	: show	DATA: <database code>, extract, newdata, query, model	
		DATABASE CODES FOR PLACE80 LEVEL	
		Code Database Title	Scope Vars Access
		BX 1980 Population by Race	US 11 cache
		CA 1980 Census: Summary Tape File 1	US 342 cache
		CF 1980 Census: Summary Tape File 3	US 1153 cache
		CG 1980 Census: Equal Emp Opportunity	US 13188 cache
		CL 1980 Census: STF4 Pop Record A	50ST 1024 cache
		CM 1980 Census: STF4 Pop Record B	NONE 77805 cache
		CN 1980 Census: STF4 Hous Record A	12ST 3900 cache
		CO 1980 Census: STF4 Hous Record B	NONE 61503 cache

user chooses STF1, database code CA	DATA: <database code>, extract, newdata, query, model	
	ca	
user requests table of contents	!STF1	1980 CENSUS: SUMMARY TAPE FILE 1
	Database Code	CA
	Geographic Levels	CD97 CNTY7080 MCD80 PLACE80 TRACT80PT COUNTY CYPL80 MCDPL80 PRSP83 STATE COUNTY80 FDBG80PT2 NATION80 CENREG CENDIV SCSA81 STSCSA81 SMSA81 STSMSA81 UA80 STUA80 FED
	Geographic Scope	US (only 32 states for level FDBG80PT2)
	Directory Authors	L. Wong, I. Elnowski, D. Merrill, A. Marcus, E. Schroeder Lawrence Berkeley Laboratory, Berkeley, CA
	Data Source	Census of Population and Housing, 1980, Census Bureau
	Last Update	7 August 1984
	Documentation	\$ copy disk\$seedis004:[seedis:seedict]stf1.sof *.* \$ @sy\$seedis:[seedis:docs]soff stf1 print
	DATA: <line letter(s)>, table, <page number>, CR	
	table	
	CA	1980 Census: STF1 Page 2 of 325
PAGE TABLE OF CONTENTS		
	1	Title Page
	2	Table of Contents
	8	Subject Matter Description
	9	Known Errors and Omissions
	16	Table Titles by Universe
	24	Data Elements
	25	Table Descriptions
	25	Tab1: Urban and Rural (3)
	25	Tab2: Families (1)
	25	Tab3: Households (1)
	26	Tab4: Urban and Rural (3)
	26	Tab5: Occupancy Status (3)
	27	Tab6: Sex (2)
	27	Tab7: Race (15)
	29	Tab8: Spanish Origin (5)
	29	Tab9: Race (5)
	30	Tab10: Sex (2) by Age (26)

user moves to page 25	25 CA	DATA: <line letter(s)>, table, <page number>, CR 1980 Census: STF1 TAB1: URBAN AND RURAL (3) Universe: Persons NOTE: Urban is derived by subtracting rural from total. Urban is not equal to "inside urbanized areas."
		Page 25 of 325
	Data Element Sup	
	A: TAB1(1) B: TAB1(2) C: TAB1(3)	Total Inside urbanized areas Rural
	Data Element Sup	TAB2: FAMILIES (1) Universe: Families
	D: TAB2(1)	10 Families
	Data Element Sup	TAB3: HOUSEHOLDS (1) Universe: Households *1
	E: TAB3(1)	Households
select line letter A: total population	a	DATA: <line letter(s)>, table, <page number>, CR Number of data elements selected is 1
next screen	CR	DATA: <line letter(s)>, table, <page number>, CR
	CA	1980 Census: STF1 TAB4: URBAN AND RURAL (3) Universe: Housing Units (Including Vacant Seasonal And Migratory Units) *2 NOTE: Urban is derived by subtracting rural from total. Urban is not equal to "inside urbanized areas."
		Page 26 of 325
	Data Element Sup	
	A: TAB4(1) B: TAB4(2) C: TAB4(3)	Total Inside urbanized areas Rural
	Data Element Sup	TAB5: OCCUPANCY STATUS (3) Universe: Year-Round Housing Units
	D: TAB5(1) E: TAB5(2) F: TAB5(3)	Total Occupied *1 Vacant
select line letter A: total housing units	a	DATA: <line letter(s)>, table, <page number>, CR Number of data elements selected is 1
requests list of selected items	review	DATA: <line letter(s)>, table, <page number>, CR Data elements selected for this database: 2 TAB1(1) TAB4(1)
user finishes data selection	quit	DATA: <line letter(s)>, table, <page number>, CR

retrieves data selected SEEDIS reports number and location of necessary files	: extract	DATA: <database code>, extract, newdata, query, model Checking data availability. 4 files are required. 4 files are in disk cache.
	: quit	DATA: <database code>, extract, newdata, query, model
data are extracted and ready to be displayed	: display	SEEDIS: area, data, display, profile
	: show	DISPLAY/TERMINAL: <graphic output device>
requests list of available device types	Output Device	Description
	4010	Tektronix 4010 or 4012 terminal
other is best choice for paper terminals	4014	Tektronix 4014 or 4018 terminal (left margin = - 3)
	4027	Tektronix 4025 or 4027 terminal
	4027f	Tektronix 4027 terminal, shading by patterns
	admrg	LSI ADM3A terminal with retro-graphics board
	vt125	DEC VT125 terminal (left margin = -.6)
	other	other generic non-graphic terminal
	ramtek	Ramtek 8400 Video Frame Buffer basic color selection
	ramtek2	Ramtek 8400 Video Frame Buffer enhanced color selection
	ramtek3	Ramtek 8400 Video Frame Buffer most detailed color selection
	isi	ISI Video Frame Buffer
	varian	Varian printer/plotter
	printer	line printer
	intermediate	coded intermediate file, for miscellaneous devices
	dc	31x20 mm color slide (left margin = -.48)
	dl	75x60 mm color transparency (left margin = -.25)
	ds	77x62 mm Polaroid color print (left margin = 0)
selects option for tabular listing	: other	DISPLAY/TERMINAL: <graphic output device>
	: list	DISPLAY: chart, list, map, plot, device
	: type	DISPLAY/LIST: page, type, print

The SEEDIS caching process can vary from 5-15 minutes for data extraction, to overnight for files not found in the disk cache and which must be fetched from computer tape. Appendix B illustrates procedures for leaving SEEDIS when the caching operating begins, and returning after your data has been retrieved.

	FIPS STATE	FIPS PLACE80
KS AUBURN CITY	20	0157
KS MCLOUTH CITY	20	1740
KS MERIDEN CITY	20	1855
KS NORTONVILLE CITY	20	2080
KS OSKALOOSA CITY	20	2170
KS OZAWKIE CITY	20	2202
KS ROSSVILLE CITY	20	2485
KS SILVER LAKE CITY	20	2640
KS TOPEKA CITY	20	2795
KS VALLEY FALLS CITY	20	2880
	TAB1(1)	TAB4(1)
	Urban-Rural Status Total	Urban-Rural Status Housing Persons Units Including
KS AUBURN CITY	890	288
KS MCLOUTH CITY	700	305
KS MERIDEN CITY	707	289
KS NORTONVILLE CITY	692	270
KS OSKALOOSA CITY	1092	425
KS OZAWKIE CITY	472	183
KS ROSSVILLE CITY	1045	388
KS SILVER LAKE CITY	1350	460
KS TOPEKA CITY	115266	50371
KS VALLEY FALLS CITY	1189	513
: quit	DISPLAY/LIST: page, type, print	
: quit	DISPLAY: chart, list, map, plot, device	
: quit	SEEDIS: area, data, display, profile	
\$		

SEEDIS
automatically
formats the
report with
column
titles

APPENDIX A

SEEDIS PROFILE EXAMPLES

1977 CITY COUNTY DATA BOOK
FAMILIES, INCOME AND HOUSING PROFILE
KS JEFFERSON

FAMILY, INCOME

	1960	1960	1970
Number of Families	3,080	3,011	3,197
Percent Low Income 1/	50.4%	33.7%	14.4%
Median Family Income (\$)	1,983	4,287	8,346

PUBLIC ASSISTANCE RECIPIENTS

	1972	1976
AFDC	89	270
AFDC children		182
Average Monthly Payments/Fam (\$)	165	246
SSI		
Total		145
Aged		84
Payments Total/Mo. (\$000)		[2]

HOUSING

	1940	1950	1960	1970
Total Housing Units	4,027	3,839	3,862	4,055
Percent built since last census		5.7%	12.6%	24.8%
Occupied units	3,748	3,530	3,473	3,771
Owner occupied	52.2%	69.6%	76.0%	79.6%
Median/Mean occupants	3.0rd	2.7rd	3.2rd	3.1rd
Median value owner-occupied (\$)			5,800	11,397
Median rent (\$)			60	87
mobility (% moved into in last 5 years)				45.0%

CONSTRUCTION (1975-1976)

New private units authorized	164
% single units	96.3
% 5+ units	0.0
Total permit value (\$000)	4,145
Average per unit (\$/unit)	25,274

1/ low income defined as under \$2000 for 1960 and
as under \$3000 for 1960 and 1970
[n] denotes a suppression flag of value n

1977 CITY COUNTY DATA BOOK BUSINESS AND INDUSTRY PROFILE KS JEFFERSON					
	1954	1958	1963	1967	1972
Manufacturing					
establishments	6	11	11	12	13
payroll (\$000)	409	401	257	300	[2]
value add (\$000)	438	860	510	600	[2]
new cap exp \$000	28	0	18	100	[2]
employees	119	99	66	100	[2]
production workers	97	75	51	0	[2]
Retail Trade					
establishments	136	134	126	109	145
sales (\$000)	7,884	8,097	8,788	9,549	12,290
payroll (\$000)	545	559	678	760	794
employees	283	261	237	228	253
Selected Services					
establishments	44	49	53	71	79
receipts (\$000)	222	422	435	567	1,214
payroll (\$000)	24	36	48	64	182
employees	18	21	23	28	58
Wholesale Trade					
establishments	17	18	10	7	17
sales (\$000)	0	2,295	2,291	2,797	8,200
payroll (\$000)	0	131	68	103	438
employees	0	32	19	20	66
Mineral Industries					
establishments		2	2	4	1
payroll (\$000)		0	0	[1]	[1]
ship val (\$000)	0	0	0	[1]	[1]
value add (\$000)			0		[1]
cap exp (\$000)				0	
employees		0	0	[1]	[1]
[n] denotes a suppression flag of value n					

1977 CITY COUNTY DATA BOOK
FAMILIES, INCOME AND HOUSING PROFILE
KS OSAGE

FAMILY, INCOME

	1950	1960	1970
Number of Families	3,525	3,549	3,630
Percent Low Income 1/	46.5%	37.5%	15.7%
Median Family Income (\$)	2,104	3,939	7,553

PUBLIC ASSISTANCE RECIPIENTS

	1972	1976
AFDC	118	328
AFDC children		235
Average Monthly Payments/Fam. (\$)	114	225
SSI		
Total		149
Aged		96
Payments Total/Mo. (\$000)		[2]

HOUSING

	1940	1950	1960	1970
Total Housing Units	5,007	4,462	4,788	4,898
Percent built since last census		3.7%	10.4%	17.5%
Occupied units	4,625	4,006	4,227	4,475
Owner occupied	58.7%	75.1%	76.6%	79.6%
Median/Mean occupants	2.9rd	2.5rd	3.0rd	2.9rd
Median value owner-occupied (\$)			5,100	7,709
Median rent (\$)			59	89
mobility (% moved into in last 5 years)				43.4%

CONSTRUCTION (1975-1976)

New private units authorized	113
% single units	69.9
% 5+ units	26.5
Total permit value (\$000)	2,317
Average per unit (\$/unit)	20,504

1/ Low income defined as under \$2000 for 1950 and as under \$3000 for 1960 and 1970

[n] denotes a suppression flag of value n

1977 CITY COUNTY DATA BOOK BUSINESS AND INDUSTRY PROFILE KS OSAGE					
	1954	1958	1963	1967	1972
Manufacturing					
establishments	10	11	16	13	10
payroll (\$000)	108	106	166	[2]	[2]
value add (\$000)	212	94	1,387	[2]	[2]
new cap exp \$000	8	13	38	[2]	[2]
employees	62	48	191	[2]	[2]
production workers	46	39	164	[2]	[2]
Retail Trade					
establishments	210	178	186	166	176
sales (\$000)	10,218	11,051	12,835	14,250	19,179
payroll (\$000)	612	744	992	1,229	1,612
employees	295	353	371	407	406
Selected Services					
establishments	69	75	90	98	105
receipts (\$000)	420	678	858	994	1,504
payroll (\$000)	31	94	73	112	206
employees	32	61	31	36	50
Wholesale Trade					
establishments	19	23	20	17	23
sales (\$000)	5,173	5,869	8,779	5,072	16,200
payroll (\$000)	96	129	176	212	886
employees	48	41	69	43	137
Mineral Industries					
establishments		5	6	0	0
payroll (\$000)		0	0	0	0
ship val (\$000)	407	0	0	0	0
value add (\$000)			0		0
cap exp (\$000)				0	
employees		0	0	0	0
[n] denotes a suppression flag of value n					

1977 CITY COUNTY DATA BOOK
FAMILIES, INCOME AND HOUSING PROFILE
KS SHAWNEE

FAMILY INCOME

	1950	1960	1970
Number of Families	28,135	36,369	39,516
Percent Low Income 1/	21.1%	15.9%	7.4%
Median Family Income (\$)	3,255	5,931	9,658

PUBLIC ASSISTANCE RECIPIENTS

	1972	1976
AFDC	5,215	6,897
AFDC children		4,935
Average Monthly Payments/Fam (\$)	172	242
SSI		
Total		1,710
Aged		591
Payments Total/Mo. (\$000)		124

HOUSING

	1940	1950	1960	1970
Total Housing Units	28,009	33,917	46,015	51,929
Percent built since last census		16.6%	31.1%	25.7%
Occupied units	26,378	32,774	43,625	49,986
Owner occupied	49.6%	65.4%	66.5%	64.3%
Median/Mean occupants	2.9rd	2.7rd	3.1rd	3.1rd
Median value owner-occupied (\$)			11,600	14,911
Median rent (\$)			76	109
mobility (% moved into in last 5 years)				55.7%

CONSTRUCTION (1975-1976)

New private units authorized	1,930
% single units	76.6
% 5+ units	10.8
Total permit value (\$000)	60,199
Average per unit (\$/unit)	31,191

1/ low income defined as under \$2000 for 1950 and as under \$3000 for 1960 and 1970

1977 CITY COUNTY DATA BOOK BUSINESS AND INDUSTRY PROFILE KS SHAWNEE					
	1954	1958	1963	1967	1972
Manufacturing establishments	138	137	135	141	134
payroll (\$000)	23,711	29,842	40,254	58,200	86,000
value add (\$000)	56,929	74,488	100,662	168,900	231,100
new cap exp \$000	3,138	6,272	8,515	16,000	[2]
employees	6,010	6,185	6,588	8,300	9,200
production workers	4,243	4,209	4,832	6,200	7,000
Retail Trade establishments	1,295	1,274	1,186	1,368	1,628
sales (\$000)	143,516	169,294	196,024	249,001	396,880
payroll (\$000)	17,156	19,890	24,203	30,182	49,287
employees	6,920	7,570	7,517	8,483	10,444
Selected Services establishments	562	780	722	858	1,320
receipts (\$000)	14,714	20,145	26,858	35,093	70,924
payroll (\$000)	4,396	5,680	7,651	11,211	21,270
employees	2,030	2,407	2,380	3,289	4,245
Wholesale Trade establishments	180	193	229	214	236
sales (\$000)	110,136	141,776	208,112	231,368	363,100
payroll (\$000)	7,928	9,682	14,001	17,397	27,566
employees	2,001	2,108	2,580	2,640	2,890
Mineral Industries establishments		11	14	8	17
payroll (\$000)		271	492	[1]	[1]
ship val (\$000)	740	819	1,829	[1]	[1]
value add (\$000)			1,406		[1]
cap exp (\$000)				139	
employees		58	103	[1]	[1]
[n] denotes a suppression flag of value n					

1977 CITY COUNTY DATA BOOK
BUSINESS AND INDUSTRY PROFILE
AGGREGATION OF ALL AREAS RETRIEVED

	1964	1968	1963	1967	1972
Manufacturing					
establishments	154	159	162	166	157
payroll (\$000)	24,228	30,148	40,677	58,500*	86,000*
value add (\$000)	57,577	75,442	102,559	169,500*	231,100*
new cap exp \$000	3,174	6,285	8,569	16,100*	*
employees	6,191	6,332	6,845	8,400*	9,200*
production workers	4,386	4,323	5,047	6,200*	7,000*
Retail Trade					
establishments	1,641	1,586	1,498	1,643	1,949
sales (\$000)	161,618	188,442	217,647	272,800	428,349
payroll (\$000)	18,313	21,193	25,873	32,171	51,693
employees	7,498	8,184	8,125	9,118	11,103
Selected Services					
establishments	675	904	865	1,027	1,504
receipts (\$000)	15,356	21,245	28,151	36,654	73,642
payroll (\$000)	4,451	5,810	7,772	11,387	21,658
employees	2,080	2,489	2,434	3,353	4,353
Wholesale Trade					
establishments	216	234	259	238	276
sales (\$000)	115,309	149,940	219,182	239,237	387,500
payroll (\$000)	8,024	9,942	14,245	17,712	28,890
employees	2,049	2,181	2,668	2,703	3,093
Mineral Industries					
establishments		18	22	12	18
payroll (\$000)		271	492	*	*
ship val (\$000)	1,147	819	1,829	*	*
value add (\$000)			1,406		*
cap exp (\$000)				139	
employees		58	103	*	*

* aggregation includes only non-suppressed data

The following suppression flags may be encountered in the PROFILES where data is taken from the 1977 CITY COUNTY DATA BOOK. The suppression flags are:

- [1] no data - not available
- [2] no data - suppression for confidentiality purposes
- [3] no data - not applicable
- [6] no data - geographic area not incorporated at the time of data collection
- [7] no data - data omitted for reasons of space or statistical insignificance (less than 400)

1980 Census STF1

Report 1A. Population
and Housing Part 1SEEDIS Run on 10 Jan 1985
Lawrence Berkeley LaboratoryJefferson County
Kansas

Population by Race, Origin, Marital Status

Universe: Persons	Number	Percent
Population by Race, including Hispanics	15,207	100.0
White	14,997	98.6
Black	51	0.3
Native American	110	0.7
American Indian	110	0.7
Eskimo	-	-
Aleut	-	-
Asian and Pacific Islander (4)	21	0.1
Japanese	4	-
Chinese	1	-
Filipino	1	-
Korean	3	-
Asian Indian	1	-
Vietnamese	11	0.1
Hawaiian	-	-
Guamanian	-	-
Samoan	-	-
Remaining Races (3)	28	0.2
Population by Race, excluding Hispanics	15,127	100.0
White, not Hispanic	14,937	98.7
Black, not Hispanic	51	0.3
Nat Amer and Asian/Pac Isl, not Hisp (4)	130	0.9
Remaining Races, not Hispanic (3)	9	0.1
Population by Origin, including all races	15,207	100.0
Hispanic	80	0.5
Mexican	59	0.4
Puerto Rican	-	-
Cuban	-	-
Other Hispanic	21	0.1
Hispanic by Race	80	100.0
White	60	75.0
Black	-	-
Native American, and Asian/Pac Isl (4)	1	1.3
Remaining Races (3)	19	23.8
Universe: Persons 15 Years and Over	Number	Percent
Population by Marital Status	11,625	100.0
Married, including Separated	7,990	68.7
Never-Married	2,249	19.3
Divorced and Widowed	1,386	11.9

Housing Characteristics

Universe: Housing Units	Number	Percent
Total Housing Units (2)	5,817	
Owner-Occupied Housing Units	5,698	100.0
Condominium Units	12	0.2
Not for sale, including for exclusive use (13)	188	3.3
Grouped housing units (1)	5,297	93.0
Median Persons per Unit (7)	2	
Owner Vacancy Rate	1.7	
Renter Vacancy Rate	11.5	

Population, Household, Housing Characteristics Report 1a: Part II
 1980 Census, STF 1 Jefferson County
 SEEDIS run date 10 Jan 1985 Kansas
 Lawrence Berkeley Laboratory

Population and Household Characteristics

Universe: Persons	Male	Percent	Female	Percent
Population by Age/Sex	7,584	100.0	7,643	100.0
0-4 Years	568	7.5	485	6.3
5-13 Years	1,167	15.4	1,082	14.2
14-15 Years	303	4.0	278	3.6
16 Years and Over	5,526	73	5,798	76
16-17 Years	325	4.3	337	4.4
18-19 Years	230	3.0	194	2.5
20-21 Years	170	2.2	183	2.4
22-24 Years	282	3.7	287	3.8
25-34 Years	1,105	14.6	1,141	14.9
35-44 Years	937	12.4	904	11.8
45-54 Years	781	10.3	735	9.6
55-64 Years	741	9.8	795	10.4
65-74 Years	574	7.6	608	8.0
75 Years and Over	381	5.0	614	8.0
Median Age in Years	31.8		33.7	

Universe: Households	Number	Percent
Total Households (1)	5,297	100.0
1 Person Household	972	18.4
Male Householder	355	8.7
Female Householder	617	11.6
2 or More Person Household	4,325	81.6
Married-couple Family	3,889	73.4
Other Family	389	7.0
Male Householder, no Wife Present	110	2.1
Female Householder, no Husband Present	259	4.9
Nonfamily Households	67	1.3
Male Householder	47	0.9
Female Householder	20	0.4
Total Households w/ Persons Age 65+ (7)	1,441	100.0
1 Person Household	564	39.1
2 or More Person Household	877	60.9
Total Households w/ Persons Under Age 18	2,265	100.0
Married-Couple Family	2,040	90.1
Other Family	218	9.6
Male Householder, no Wife Present	48	2.1
Female Householder, no Husband Present	170	7.5
Nonfamily Households	7	0.3

Housing Characteristics

Universe: Occupied Housing Units	Number	Percent
Occupied Housing Units	5,297	100.0
With 1.01 or more Persons per Room	127	2.4
Owner Occupied	4,472	84.4
Lack Complete Plumbing for exclusive use (13)	99	2.2
Median Value in Dollars (11)	36,000.0	
Renter Occupied	825	15.6
Lack Complete Plumbing for exclusive use (13)	36	4.4
Median Contract Rent in Dollars (13)	125.0	

1980 Census STF1

Report 1A: Population
and Housing Part 1SEEDIS Run on 10 Jan 1985
Lawrence Berkeley LaboratoryOsage County
Kansas

Population by Race, Origin, Marital Status

Universe: Persons	Number	Percent
Population by Race, including Hispanics	15,319	100.0
White	15,154	98.9
Black	18	0.1
Native American	47	0.3
American Indian	47	0.3
Eskimo	-	-
Aleut	-	-
Asian and Pacific Islander (4)	26	0.2
Japanese	5	-
Chinese	1	-
Filipino	9	0.1
Korean	3	-
Asian Indian	6	-
Vietnamese	1	-
Hawaiian	1	-
Guamanian	-	-
Samian	-	-
Remaining Races (3)	74	0.5
Population by Race, excluding Hispanics	15,171	100.0
White, not Hispanic	15,059	99.3
Black, not Hispanic	18	0.1
Nat Amer and Asian/Pac Isl, not Hisp (4)	72	0.5
Remaining Races, not Hispanic (3)	22	0.1
Population by Origin, including all races	15,319	100.0
Hispanic	148	1.0
Mexican	116	0.8
Puerto Rican	14	0.1
Cuban	-	-
Other Hispanic	18	0.1
Hispanic by Race	148	100.0
White	95	64.2
Black	-	-
Native American, and Asian/Pac Isl (4)	1	0.7
Remaining Races (3)	52	35.1
Universe: Persons 15 Years and Over	Number	Percent
Population by Marital Status	11,838	100.0
Married, including Separated	8,099	68.4
Never-Married	2,152	18.2
Divorced and Widowed	1,587	13.4

Housing Characteristics

Universe: Housing Units	Number	Percent
Total Housing Units (2)	6,152	
Total Year-Round Housing Units	5,997	100.0
Condominium Units	-	-
Lack Complete Plumbing for exel use (13)	150	2.5
Occupied Housing Units (1)	5,600	93.4
Median Persons per Unit (7)	2	
Mortgage Vacancy Rate	1.7	
Rental Vacancy Rate	10.2	

Population, Household, Housing Characteristics Report 1a: Part II
 1980 Census, STF 1
 SEEDIS run date 10 Jan 1985
 Lawrence Berkeley Laboratory

Osage County
 Kansas

Population and Household Characteristics

Universe: Persons	Male	Percent	Female	Percent
Population by Age/Sex	7,551	100.0	7,768	100.0
0-4 Years	579	7.7	549	7.1
5-13 Years	1,106	14.6	1,006	13.0
14-15 Years	289	3.6	251	3.2
16 Years and Over	5,597	74	5,962	77
16-17 Years	321	4.3	262	3.4
18-19 Years	251	3.3	237	3.1
20-21 Years	206	2.7	186	2.4
22-24 Years	338	4.5	344	4.4
25-34 Years	1,064	14.1	1,077	13.9
35-44 Years	830	11.0	830	10.7
45-54 Years	789	10.4	762	9.8
55-64 Years	732	9.7	789	10.2
65-74 Years	630	8.3	741	9.5
75 Years and Over	436	5.8	734	9.4
Median Age in Years	31.7		34.7	

Universe: Households	Number	Percent
Total Households (1)	5,600	100.0
1 Person Household	1,251	22.3
Male Householder	437	7.8
Female Householder	814	14.5
2 or More Person Household	4,349	77.7
Married-couple Family	3,927	70.1
Other Family	345	6.2
Male Householder, no Wife Present	82	1.5
Female Householder, no Husband Present	263	4.7
Nonfamily Households	77	1.4
Male Householder	58	1.0
Female Householder	19	0.3
Total Households w/ Persons Age 65+ (7)	1,693	100.0
1 Person Household	768	45.4
2 or More Person Household	925	54.6
Total Households w/ Persons Under Age 18	2,238	100.0
Married-Couple Family	2,005	89.6
Other Family	225	10.1
Male Householder, no Wife Present	41	1.8
Female Householder, no Husband Present	184	8.2
Nonfamily Households	8	0.4

Housing Characteristics

Universe: Occupied Housing Units	Number	Percent
Occupied Housing Units	5,600	100.0
With 1.01 or more Persons per Room	131	2.3
Owner Occupied	4,591	82.0
Lack Complete Plumbing for excl use (13)	78	1.4
Median Value in Dollars (11)	31300.0	
Renter Occupied	1,009	18.0
Lack Complete Plumbing for excl use (13)	23	0.4
Median Contract Rent in Dollars (13)	115.0	

1980 Census STF1

Report 1A. Population
and Housing Part 1SEEDIS Run on 10 Jan 1985
Lawrence Berkeley LaboratoryShawnee County
Kansas

Population by Race, Origin, Marital Status

Universe: Persons	Number	Percent
Population by Race, including Hispanics	154,916	100.0
White	137,423	88.7
Black	11,842	7.6
Native American	1,410	0.9
American Indian	1,403	0.9
Eskimo	5	-
Aleut	2	-
Asian and Pacific Islander (4)	715	0.5
Japanese	84	0.1
Chinese	144	0.1
Filipino	92	0.1
Korean	85	0.1
Asian Indian	155	0.1
Vietnamese	123	0.1
Hawaiian	18	-
Guamanian	8	-
Samoan	6	-
Remaining Races (3)	3,526	2.3
Population by Race, excluding Hispanics	148,766	100.0
White, not Hispanic	134,798	90.6
Black, not Hispanic	11,659	7.8
Nat Amer and Asian/Pac Isl, not Hisp (4)	1,937	1.3
Remaining Races, not Hispanic (3)	372	0.3
Population by Origin, including all races	154,916	100.0
Hispanic	6,150	4.0
Mexican	5,281	3.4
Puerto Rican	212	0.1
Cuban	54	-
Other Hispanic	603	0.4
Hispanic by Race	6,150	100.0
White	2,625	42.7
Black	183	3.0
Native American, and Asian/Pac Isl (4)	188	3.1
Remaining Races (3)	3,154	51.3
Universe: Persons 15 Years and Over	Number	Percent
Population by Marital Status	120,872	100.0
Married, including Separated	72,569	60.0
Never-Married	28,966	24.0
Divorced and Widowed	19,337	16.0

Housing Characteristics

Universe: Housing Units	Number	Percent
Total Housing Units (2)	64,446	
Total Year-Round Housing Units	64,393	100.0
Condominium Units	1,239	1.9
Lack Complete Plumbing for exclusive use (13)	897	1.4
Occupied Housing Units (1)	58,832	91.4
Median Persons per Unit (7)	2	
Homeowner Vacancy Rate	3.4	
Rental Vacancy Rate	11.8	

Population, Household, Housing Characteristics Report 1a, Part II
 1980 Census, STF 1
 SEEDIS run date 10 Jan 1985
 Lawrence Berkeley Laboratory

Shawnee County
 Kansas

Population and Household Characteristics

Universe: Persons	Male	Percent	Female	Percent
Population by Age/Sex	74,805	100.0	80,111	100.0
0-4 Years	6,000	8.0	5,437	6.8
5-13 Years	10,418	13.9	9,792	12.2
14-15 Years	2,702	3.6	2,398	3.0
16 Years and Over	55,685	74	62,484	78
16-17 Years	2,918	3.9	2,786	3.5
18-19 Years	2,585	3.5	2,711	3.4
20-21 Years	2,680	3.6	2,884	3.6
22-24 Years	4,400	5.9	4,740	5.9
25-34 Years	13,003	17.4	13,489	16.8
35-44 Years	8,217	11.0	8,683	10.8
45-54 Years	7,850	10.6	8,226	10.3
55-64 Years	6,958	9.3	7,430	9.3
65-74 Years	4,247	5.7	6,075	7.6
75 Years and Over	2,727	3.6	5,480	6.8
Median Age in Years	29.1		31.6	

Universe: Households	Number	Percent
Total Households (1)	58,832	100.0
1 Person Household	15,107	25.7
Male Householder	5,513	9.4
Female Householder	9,594	16.3
2 or More Person Household	43,725	74.3
Married-couple Family	34,859	59.3
Other Family	8,445	11.0
Male Householder, no Wife Present	1,086	1.8
Female Householder, no Husband Present	5,359	9.1
Nonfamily Households	2,421	4.1
Male Householder	1,368	2.3
Female Householder	1,053	1.8
Total Households w/ Persons Age 65+ (7)	12,741	100.0
1 Person Household	5,588	43.9
2 or More Person Household	7,153	56.1
Total Households w/ Persons Under Age 18	22,228	100.0
Married-Couple Family	17,610	79.2
Other Family	4,409	19.8
Male Householder, no Wife Present	551	2.5
Female Householder, no Husband Present	3,858	17.4
Nonfamily Households	209	0.9

Housing Characteristics

Universe: Occupied Housing Units	Number	Percent
Occupied Housing Units	58,832	100.0
With 1.01 or more Persons per Room	1,180	2.0
Owner Occupied	39,753	67.6
Lack Complete Plumbing for excl use (13)	155	0.3
Median Value in Dollars (11)	44100.0	
Renter Occupied	19,079	32.4
Lack Complete Plumbing for excl use (13)	422	0.7
Median Contract Rent in Dollars (13)	180.0	

U.S. Department of Labor Employment and Training Admin. 1980 Census, Run on 18 Jan 1985 Lawrence Berkeley Laboratory										Report 24: 1980 Census and Employment Characteristics Tables: Population, Labor Force, and Income Characteristics										Labels									
Population										Labor Force, Industry and Occupation										Labor Force, Industry and Occupation									
Universe: Persons (58)										Persons 16 Years and Over										Persons 16 Years and Over									
Population by Race, Incl Hisp										Total, Incl Hisp										Total, Incl Hisp									
White										White										White									
Black										Black										Black									
Native American										Native American										Native American									
Asian and Pacific Isl (4)										Asian/Pac Isl (4)										Asian/Pac Isl (4)									
Remaining Races (a)										Remaining Races (a)										Remaining Races (a)									
Hispanic, all races										Hispanic, all races										Hispanic, all races									
Foreign Born										Foreign Born										Foreign Born									
Persons 5 Years and Over Speak English Poorly										Persons 5 Years and Over Speak English Poorly										Persons 5 Years and Over Speak English Poorly									
Civilian 16 Years and Over										Civilian 16 Years and Over										Civilian 16 Years and Over									
Veteran										Veteran										Veteran									
Vietnam Era Veteran (28)										Vietnam Era Veteran (28)										Vietnam Era Veteran (28)									
U: Persons										U: Persons										U: Persons									
Male										Male										Male									
Female										Female										Female									
Total										Total										Total									
14-15 Years										14-15 Years										14-15 Years									
16 Years +										16 Years +										16 Years +									
16-21 Years										16-21 Years										16-21 Years									
22-24 Years										22-24 Years										22-24 Years									
25 Years +										25 Years +										25 Years +									
Labor Force and Education										Labor Force and Education										Labor Force and Education									
U: Persons 16-19 Years										U: Persons 16-19 Years										U: Persons 16-19 Years									
Total										Total										Total									
Armed Forces										Armed Forces										Armed Forces									
Civilian Enrolled in School										Civilian Enrolled in School										Civilian Enrolled in School									
Civilian Not Enrolled in School										Civilian Not Enrolled in School										Civilian Not Enrolled in School									
Unemployed High Sch Graduate										Unemployed High Sch Graduate										Unemployed High Sch Graduate									
Not in Labor Force, HS Grad										Not in Labor Force, HS Grad										Not in Labor Force, HS Grad									
Unemployed School Dropout										Unemployed School Dropout										Unemployed School Dropout									
Not in LF, School Dropout										Not in LF, School Dropout										Not in LF, School Dropout									
U: Institutional Persons 16-64										U: Institutional Persons 16-64										U: Institutional Persons 16-64									
Total										Total										Total									
Total With Work Disability (41)										Total With Work Disability (41)										Total With Work Disability (41)									
In Labor Force										In Labor Force										In Labor Force									
Not in Labor Force										Not in Labor Force										Not in Labor Force									
Prevented from Working										Prevented from Working										Prevented from Working									
Not prevented from Working										Not prevented from Working										Not prevented from Working									
U: Persons 25 Years and Over										U: Persons 25 Years and Over										U: Persons 25 Years and Over									
Total, by Yrs School Completed										Total, by Yrs School Completed										Total, by Yrs School Completed									
Elementary (4-8 Years)										Elementary (4-8 Years)										Elementary (4-8 Years)									
Some High School (1-3 Years)										Some High School (1-3 Years)										Some High School (1-3 Years)									
High School Graduate										High School Graduate										High School Graduate									
Some College (1-3 Years)										Some College (1-3 Years)										Some College (1-3 Years)									
College Graduate										College Graduate										College Graduate									

[illegible]

APPENDIX B

SMALL AREA DATA RETRIEVAL – Census Tracts

Not Available Pending SEEDIS System Changes

SEEDIS

Appendix C - County Data Book Dictionary

APPENDIX C

County Data Book Dictionary

!CCNTDB77 COUNTY DATA BOOK DICTIONARY
 CONSOLIDATED FILE
 COUNTY DATA 1947-1977

Database Code F

Geographic Levels STATE, COUNTY, COUNTY80

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Data Source County and City Data Books 1947-1977
 U.S. Bureau of the Census
 Washington, DC

Last Update 6 March 1984

Documentation \$soff lblh::disk\$seedis004:[seedis.seedict]ccntdb77.sof
EOR

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INTRODUCTION

The universe for the data this dictionary represents is the entire United States. Items of this file are derived from various sources. The sampling of a particular item reflects the sampling of its source file.

The file is a compendia of data gathered from both governmental and private agencies. Detailed data are provided for the following general areas:

- population
- employment
- vital statistics
- school
- enrollment
- health
- income
- public assistance and social security
- banking
- housing
- government employment and finance
- elections
- crime
- manufacturing
- retail and wholesale trade
- selected services
- mineral
- industries
- farm population
- agriculture and weather

The data from the 1944 book contain information from the 1930 decennial census and the 1939 censuses.

The subject-matter data are provided for individual states, District of Columbia and each county or county equivalent for which data were provided in one of the eight County and City Data Books published since 1947.

WARNING: not all data elements are valid for all counties. Consult the section on Known Errors and Omissions. For further information, consult the printed Census Bureau documentation.

Data Elements	GEOGRAPHIC DESIGNATIONS Description
!FIPS.STATE	FIPS State Code
!FIPS.COUNTY	FIPS County Code
!AREANAME	County Name

	Population	
!CCDBC0012		1940
!CCDBC0013		1950
!CCDBC0014		1960
!CCDBC0015		1970
!CCDBC0016		1970
!CCDBC0017		1972
!CCDBC0018		1975
	Population Rank	
!CCDBC0006		1950
!CCDBC0007		1960
!CCDBC0008		1960
!CCDBC0009		1970
!CCDBC0010		1975
	Population Rank in Percentile	
!CCDBC0011		1940
	Land Area in Square Miles	
!CCDBC0001		1940
!CCDBC0002		1950
!CCDBC0003		1960
!CCDBC0004		1970
!CCDBC0005		1975
	Population Per Square Mile	
!CCDBC0019		1940
!CCDBC0020		1950
!CCDBC0021		1960
!CCDBC0022		1970
!CCDBC0023		1975
	Population Percent Change	
!CCDBC0024		1930-1940
!CCDBC0025		1940-1950
!CCDBC0026		1950-1960
!CCDBC0027		1960-1970
!CCDBC0028		1970-1975
	Net Migration Percent Change	
!CCDBC0029		1950-1960
!CCDBC0030		1960-1970
!CCDBC0031		1970-1975
	Migration 1 Year	
!CCDBC0032		1949-1950
	Migrants From Different County Percent	
!CCDBC0033		1955-1960
	Civilian Population	
!CCDBC0034		1943
	Percent Change	
!CCDBC0035		1940-1943
	NET Civilian Migration	
!CCDBC0036		1950-1960
	Population	
	Percent Female	

!CCDBC0037	1970	
	Percent Urban	
!CCDBC0038	1940	
!CCDBC0039	1960	
!CCDBC0040	1960	
!CCDBC0041	1970	
	Rural Farm Population	
!CCDBC0042	1940	
!CCDBC0043	1945	
!CCDBC0044	1950	
!CCDBC0045	1970	
	Percent Rural Farm Population	
!CCDBC0046	1960	
	Farm Population Percent Change	
!CCDBC0047	1960-1970	
	Rural Nonfarm Population	
!CCDBC0048	1940	
!CCDBC0049	1950	
!CCDBC0050	1970	
	White Population	
!CCDBC0051	1940	
!CCDBC0052	1970	
	Population Percent Black & Races Other Than White	
!CCDBC0053	1950	
!CCDBC0054	1960	
	Population Percent Black	
!CCDBC0055	1960	
!CCDBC0056	1970	
	Black Population Percent Change	
!CCDBC0057	1960-1970	
	One Person Households 1000	
!CCDBC0072	1970	
	Population Percent in Group Quarters	
!CCDBC0073	1960	
!CCDBC0074	1970	
	Institutional Population	
!CCDBC0075	1950	
	Population Percent Foreign Stock	
!CCDBC0076	1960	
!CCDBC0077	1970	
	Foreign Stock Leading Country of Origin	
!CCDBC0078	1970	
	01 Austria	
	02 Canada	
	03 China	
	04 Cuba	
	05 Czechoslovakia	
	06 Denmark	
	07 Finland	
	08 France	

09 Germany
 10 Greece
 11 Hungary
 12 Ireland
 13 Italy
 14 Japan
 15 Lithuania
 16 Mexico
 17 Netherlands
 18 Norway
 19 Philippines
 20 Poland
 21 Portugal
 22 Romania
 23 Sweden
 24 Switzerland
 25 United Kingdom
 26 USSR
 27 Yugoslavia

!CCDBC0079	Population Percent Foreign Born	1960
!CCDBC0080	Native of Foreign or Mixed Parentage PCT	1960
!CCDBC0081	Persons of Spanish Heritage Percent	1970

	Births	
!CCDBC0082		1944
!CCDBC0083		1964
!CCDBC0084		1975
	Live Births	
!CCDBC0085		1948
!CCDBC0086		1950
!CCDBC0087		1954
!CCDBC0088		1960
	Birth Rate Per Thousand Population	
!CCDBC0089		1968
!CCDBC0090		1975
!CCDBC0091		1970
	Deaths	
!CCDBC0092		1944
!CCDBC0093		1948
!CCDBC0094		1950
!CCDBC0095		1954
!CCDBC0096		1959
!CCDBC0097		1964
!CCDBC0098		1975
	Infant Deaths	
!CCDBC0099		1948
!CCDBC0100		1950
	Death Rate Per Thousand Population	
!CCDBC0101		1969
!CCDBC0102		1975
!CCDBC0103		1970
	Natural Increase Percent Change	
!CCDBC0104		1950
!CCDBC0105		1960
!CCDBC0106		1970
	Marriages	
!CCDBC0107		1948
!CCDBC0108		1950
!CCDBC0109		1954
!CCDBC0110		1960
!CCDBC0111		1964
!CCDBC0112		1975
	Marriage Rate Per Thousand Population	
!CCDBC0113		1975
!CCDBC0114		1970
	Divorces	
!CCDBC0115		1975
	Divorce Rate Per Thousand Population	
!CCDBC0116		1975
!CCDBC0117		1970

	Families	
!CCDBC0227		1950
!CCDBC0228		1960
!CCDBC0229		1970
	Families Percent With Female Head	
!CCDBC0230		1970

County Data Book
Data Elements

AGE
Description Year

Page C-8

	Count of Persons	
	....Under 5 Years	
!CCDBC0058		1950
	....65 Years and Over	
!CCDBC0063		1950
	Persons, Percent	
	....Under 5 Years	
!CCDBC0059		1960
!CCDBC0060		1970
	....18 Years and Over	
!CCDBC0061		1970
	....21 Years and Over	
!CCDBC0062		1960
	....65 Years and Over	
!CCDBC0064		1950
!CCDBC0065		1960
!CCDBC0066		1970
!CCDBC0067		1975
	Median Age Years	
!CCDBC0068		1950
!CCDBC0069		1960
!CCDBC0070		1970
	Citizens 21 Years and Over	
!CCDBC0071		195

	Families, Percent With Income	
	....Less Than \$2000	
!CCDBC0231		1950
	....\$5000 Or More	
!CCDBC0232		1950
	....Less Than \$3000	
!CCDBC0233		1960
!CCDBC0234		1970
	....\$10000 And Over	
!CCDBC0235		1960
	....\$3000-4999	
!CCDBC0236		1970
	....\$5000-6999	
!CCDBC0237		1970
	....\$10000-14999	
!CCDBC0238		1970
	....\$15000 And Over	
!CCDBC0239		1970
	....\$15000-24999	
!CCDBC0240		1970
	....\$25000 Or More	
!CCDBC0241		1970
	Median Family Income \$	
!CCDBC0242		1950
!CCDBC0243		1960
!CCDBC0244		1970
	Rank	
!CCDBC0245		1969
	White \$	
!CCDBC0246		1969
	Black \$	
!CCDBC0247		1969
	Farm Population Median Family Income \$	
!CCDBC0248		1969
	Families Percent Below Poverty Level	
!CCDBC0249		1969
	125 Percent of Poverty Level	
!CCDBC0250		1969
	Persons Below Poverty Level	
!CCDBC0251		1969
	Percent With Related Children Under 18	
!CCDBC0252		1969
	Percent 65 Years & Over	
!CCDBC0253		1969
	Farm Population Persons Below Poverty Level	
!CCDBC0254		1969

	Aggregate Income	Million Dollars
!CCDBC0255		1959
	Per Capita Money Income	\$
!CCDBC0256		1969
!CCDBC0257		1974
	Rank	
!CCDBC0258		1974
	Per Capital Money Income Annual Average Percent Change	
!CCDBC0259		1969

	OASDHI Recipients	
!CCDBC0260		1971
!CCDBC0261		1976
	OASDHI Payments Per Month \$1000	
!CCDBC0262		1971
!CCDBC0263		1976
	To Retirees Per Month \$M	
!CCDBC0264		1976
	Average Payments To Retirees Per Month \$	
!CCDBC0265		1971
!CCDBC0266		1976
	Public Assistance Recipients	
!CCDBC0267		1964
	Old Age Assistance	
!CCDBC0268		1972
	Aid to Families With Dependent Children	
!CCDBC0269		1972
!CCDBC0270		1976
	.....children	
!CCDBC0271		1976
	Payments for Month \$M	
!CCDBC0272		1972
	Percent Old Age Assistance	
!CCDBC0273		1972
	Aid to Families With Dependent Children \$1000	
!CCDBC0274		1976
	Percent Aid to Families with Dependent Children	
!CCDBC0275		1972
	Aid to Families With Dependent Children (Average/Family) \$	
!CCDBC0276		1972
!CCDBC0277		1976
	Supplemental Security Income Total Recipients	
!CCDBC0278		1976
	Recipients Aged	
!CCDBC0279		1976
	Payments Per Month \$1000	
!CCDBC0280		1976
	Payments Per Month Aged \$1000	
!CCDBC0281		1976

	Persons 25 Years or More	
!CCDBC0123	1970	
	Percent With 5 Years School Or more	
!CCDBC0124	1940	
	With High School Or more	
!CCDBC0125	1940	
!CCDBC0126	1950	
!CCDBC0127	1960	
!CCDBC0128	1970	
	With 4 Years College Or more	
!CCDBC0129	1970	
	With Less than 5 Years School	
!CCDBC0130	1950	
!CCDBC0131	1960	
!CCDBC0132	1970	
	Median School Years	
!CCDBC0133	1950	
!CCDBC0134	1960	
!CCDBC0135	1970	
	Persons 7-17 Years	
!CCDBC0136	1950	
	Enrolled In School	
!CCDBC0137	1950	
	Percent Enrolled In School	
!CCDBC0138	1950	
	14-17 Years Enrolled In School	
!CCDBC0139	1950	
	14-17 Years Percent Enrolled In School	
!CCDBC0140	1950	
	5-34 Years Enrolled	
!CCDBC0141	1960	
!CCDBC0142	1975	
	Enrolled	
!CCDBC0143	1970	
	5-34 Enrolled In Kindergarten and Elementary	
!CCDBC0144	1960	
!CCDBC0145	1970	
	in High School	
!CCDBC0146	1960	
!CCDBC0147	1970	
	in College	
!CCDBC0148	1960	
!CCDBC0149	1970	
	Black Persons 3-34, Percent	
	Enrolled in Elementary & High School	
!CCDBC0150	1970	
	Persons 3-34, Percent	
	Enrolled in Private Elementary & High School	
!CCDBC0151	1970	

	Vote For President	
!CCDBC0369		1960
!CCDBC0370		1964
!CCDBC0371		1968
!CCDBC0372		1972
!CCDBC0373		1976
	Vote For President Percent For Leading Party	
!CCDBC0374		1960
!CCDBC0375		1964
!CCDBC0376		1968
!CCDBC0377		1972
!CCDBC0378		1976
	Vote For President Leading Party	
!CCDBC0379		1960
	1 Democrat	
	2 Republican	
	Vote For President Leading Party	
!CCDBC0380		1964
	1 Democrat	
	2 Republican	
	Vote For President Leading Party	
!CCDBC0381		1968
	1 American Independence	
	2 Democrat	
	3 Republican	
	Vote For President Leading Party	
!CCDBC0382		1972
	1 Democrat	
	2 Republican	
	Vote For President Leading Party	
!CCDBC0383		1976
	1 Democrat	
	2 Republican	
	Citizens Of Voting Age 1000	
!CCDBC0384		1972
	Persons Voting Percent	
!CCDBC0385		1972

County Data Book
Data Elements

MEDICAL
Description

Year

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	Physicians	
!CCDBC0118		1975
	Rate Per 100000 Population	
!CCDBC0119		1975
	Hospitals	
!CCDBC0120		1975
	Hospital Beds	
!CCDBC0121		1975
	Rate Per 100000 Population	
!CCDBC0122		1975

!CCDBC0437	Crime Rate Per 100000 Population	1975
------------	----------------------------------	------

	Serious Crimes Known to Police	
!CCDBC0438	robbery	1975
!CCDBC0439	aggr assault	1975
!CCDBC0440	burglary	1975
!CCDBC0441	vehicle theft	1975
!CCDBC0436	total	1975

!CCDBC0442	Police Officers	1975
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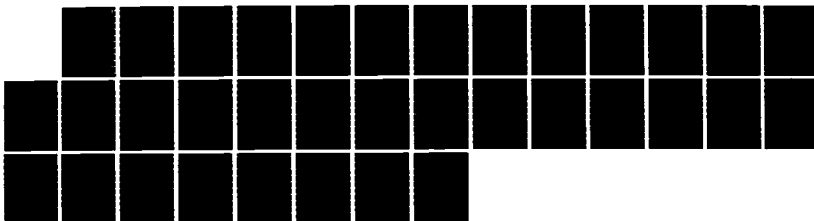
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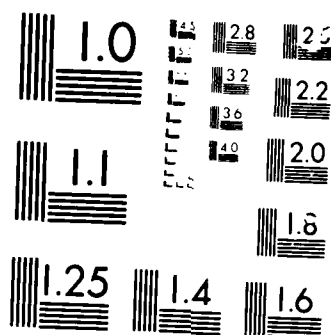
A USER'S GUIDE TO THE SOCIOECONOMIC ENVIRONMENTAL
DEMOGRAPHIC INFORMATION SYSTEM (SEEDIS)(U) CALIFORNIA
UNIV BERKELEY LAWRENCE BERKELEY LAB F C GEY JAN 86
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MICROGRAPH

100-100

	Population 14 Years and over	
!CCDBC0152	1940	
!CCDBC0153	1950	
	Labor Force. 14 Years and over	
!CCDBC0154	1940	
!CCDBC0155	1970 ?????	
	Males 14 Years and over Percent in Labor Force	
!CCDBC0156	1940	
!CCDBC0157	1950	
	Females 14 Years and over Percent in Labor Force	
!CCDBC0158	1940	
!CCDBC0159	1950	
	Civilian Labor Force	
!CCDBC0160	1950	
!CCDBC0161	1960	
!CCDBC0162	1970	
	Percent Male	
!CCDBC0163	1960	
	Female	
!CCDBC0164	1970	
	Percent Married, Husband Present	
!CCDBC0165	1970	
	Employed	
!CCDBC0168	1940	
!CCDBC0169	1950	
!CCDBC0170	1960	
!CCDBC0171	1970	
	in Agriculture	
!CCDBC0172	1940	
!CCDBC0173	1950	
!CCDBC0174	1960	
	in Mining	
!CCDBC0175	1940	
!CCDBC0176	1950	
	in Construction	
!CCDBC0177	1940	
!CCDBC0178	1950	
!CCDBC0179	1960	
	percent in Construction	
!CCDBC0180	1970	
	in Manufacturing	
!CCDBC0181	1940	
!CCDBC0182	1950	
	percent in Manufacturing	
!CCDBC0183	1950	
!CCDBC0184	1960	
!CCDBC0185	1970	
	in Manufacturing Durable Goods	
!CCDBC0186	1960	
	in Manufacturing Nondurable Goods	

!CCDBC0187	1960
	in Transportation Communications & Public Utility
!CCDBC0188	1940
!CCDBC0189	1950
!CCDBC0190	1960
	in Wholesale & Retail Trade
!CCDBC0191	1940
!CCDBC0192	1950
!CCDBC0193	1960
!CCDBC0194	1970
	in Finance, Insurance, Real Estate
!CCDBC0195	1950
!CCDBC0196	1960
	in Business and Personal Services Except Domestic
!CCDBC0197	1940
!CCDBC0198	1950
	in Professional & Related Services
!CCDBC0199	1950
	percent In Services
!CCDBC0200	1970
	percent In Government
!CCDBC0201	1970
	in Educational Services
!CCDBC0202	1960
	percent In Educational Services
!CCDBC0203	1970
	in Public Administration
!CCDBC0204	1960
	in Other Occupatons
!CCDBC0205	1940
	percent In White Collar Occupations
!CCDBC0206	1960
	percent In Professional & Managerial Occupations
!CCDBC0207	1970
	in Sales and Clerical Occupations
!CCDBC0208	1970
	as Craftsmen & Foremen
!CCDBC0209	1970

Journey to Work

Workers Percent Used Public Transportation To Work

!CCDBC0210	1960
!CCDBC0211	1970
	Worked Out Of County Of Residence
!CCDBC0212	1960
!CCDBC0213	1970

County Data Book
Data Elements

LOCAL GOVERNMENT EMPLOYMENT
Description Year

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	Local Government Employment October Fulltime Equivalent
!CCDBC0427	1962
!CCDBC0428	1967
!CCDBC0429	1972
	Payroll October \$1000
!CCDBC0430	1962
	October Million Dollars
!CCDBC0431	1967
!CCDBC0432	1972
	Federal Government Employment December
!CCDBC0433	1965
!CCDBC0434	1967
!CCDBC0435	1975

	Reporting Units With Social Security Coverage	
!CCDBC0214		1953
!CCDBC0215		1957
!CCDBC0216		1964
	Employees With Social Security Coverage Mid-March	
!CCDBC0217		1953
!CCDBC0218		1959
!CCDBC0219		1964
!CCDBC0220		1975
	Employees In Manufacturing Percent With Social Security Coverage	
!CCDBC0221		1975
	Employees in Wholesale and Retail Trade Percent With Social Security Coverage	
!CCDBC0222		1975
	OASI Taxable Payrolls Jan. -March \$1000	
!CCDBC0223		1953
!CCDBC0224		1959
!CCDBC0225		1964
	Payroll Social Security Coverage Annual Million Dollars	
!CCDBC0226		1975
	unemployment (percent of civilian labor force)	
	Civilian Labor Force, Percent Unemployed	
!CCDBC0166		1960
!CCDBC0167		1970

	Residential Structures	
!CCDBC0282		1940
	Housing Units	
!CCDBC0283		1940
!CCDBC0284		1950
!CCDBC0285		1960
!CCDBC0286		1970
	Percent Change	
!CCDBC0287		1960-1970
	Median Rooms Per Unit	
!CCDBC0288		1950
!CCDBC0289		1960
!CCDBC0290		1970
	Percent in Detached Structures	
!CCDBC0291		1950
!CCDBC0292		1960
!CCDBC0293		1970
	Percent in 5 or More Unit Structures	
!CCDBC0294		1940
	Percent in Structures Built since Previous Census	
!CCDBC0295		1950
!CCDBC0296		1960
!CCDBC0297		1970
	Housing units Built Since 2nd Previous Census	
!CCDBC0298		1970
	Percent With Private Bath or Shower	
!CCDBC0299		1940
	With Hot Water, Private Toilet, Bath Not Dilapidated	
!CCDBC0300		1950
	Sound with all Plumbing Facilities	
!CCDBC0301		1960
	with Electric Lighting	
!CCDBC0302		1940
	Index of Home Equipment	
!CCDBC0303		1960
	Occupied Units	
!CCDBC0304		1940
!CCDBC0305		1950
!CCDBC0306		1960
!CCDBC0307		1970
	Percent Lacking Some or all Plumbing	
!CCDBC0308		1970
	Percent with 1.01 or More Persons/Room	
!CCDBC0309		1960
!CCDBC0310		1970
	Percent With 1.01 Or more Persons/Room all Plumbing Facilities	
!CCDBC0311		1970
	Percent Moved in 2 Years Or less Before Census	

!CCDBC0312	1960
	Percent Moved in 5 Years Or less Before Census
!CCDBC0313	1970
	Percent with Mechanical Refrigerator
!CCDBC0314	1940
!CCDBC0315	1950
	with Central Heating
!CCDBC0316	1950
	with Radio
!CCDBC0317	1950
	Median Persons per unit
!CCDBC0318	1940
!CCDBC0319	1950
	Mean Persons per unit
!CCDBC0320	1960
!CCDBC0321	1970
	Occupied Units (Continued)
	Percent Black & Races Other than White
!CCDBC0322	1950
	Percent With Clothes Washing Machine
!CCDBC0323	1960
	Percent With Home Food Freezer
!CCDBC0324	1960
!CCDBC0325	1970
	Percent With Air Conditioning
!CCDBC0326	1960
!CCDBC0327	1970
	Percent With TV
!CCDBC0328	1960
	Percent With Telephone
!CCDBC0329	1960
!CCDBC0330	1970
	Residence Telephones
!CCDBC0331	1945
!CCDBC0332	1955
	Business Telephones
!CCDBC0333	1955
	Occupied Units (Continued)
	Percent With One or More Autos
!CCDBC0334	1970
	One Auto
!CCDBC0335	1960
	Two or More Autos
!CCDBC0336	1960
	Black
!CCDBC0337	1970
	Black Owner Occupied,
	Percent Lacking Some or All Plumbing
!CCDBC0338	1970
	Occupied units Black,

!CCDBC0339	Percent With 1.01+ Persons Per Room 1970
!CCDBC0340	Owner Occupied Units 1960
!CCDBC0341	Occupied Units, Percent Owner Occupied 1940
!CCDBC0342	1950
!CCDBC0343	1960
!CCDBC0344	1970
!CCDBC0345	Owner Occupied units, Single Family Median Value \$ 1960
!CCDBC0346	1970
!CCDBC0347	Black Occupied Units, Percent Owner Occupied 1970
!CCDBC0348	Renter Occupied Units 1960
!CCDBC0349	Median Gross Rent \$ 1960
!CCDBC0350	1970
!CCDBC0351	Vacant Units Year Round Available 1950
!CCDBC0352	1960
!CCDBC0353	Vacant Unit(s) Year Round Available For Rent Percent 1960
!CCDBC0354	Vacancy Rate Owner Units Percent 1970
!CCDBC0355	Renter Units Percent 1970
!CCDBC0356	Nonfarm Housing Units 1940
!CCDBC0357	1950
!CCDBC0358	Median Value Single Unit Owner-Occupied units \$ 1950
!CCDBC0359	Median Contract Rent \$ (Renter-occupied) 1940
!CCDBC0360	1950
!CCDBC0361	Gross Rent \$ 1950
!CCDBC0362	Rural Farm Housing Units 1940
!CCDBC0363	Percent With Running Water 1940
!CCDBC0364	Percent With Elec. Lighting 1940
!CCDBC0365	New Private Units Authorized By Permit 2 Years 1975
	Percent In 1 Unit(s) Structures

County Data Book
Data Elements

HOUSING: UNITS, OCCUPANCY, VALUE
Description Year

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!CCDBC0366	1975
!CCDBC0367	Percent In 5 Or more Unit(s) Structures 1975
!CCDBC0368	Permit Value \$1000 1975

	Auto Registrations Number of Cars	
!CCDBC0613		1947
	New Auto Sales Number of Cars	
!CCDBC0614		1947
	Retail Trade Establishments	
!CCDBC0615		1939
!CCDBC0616		1948
!CCDBC0617		1948
!CCDBC0618		1954
!CCDBC0619		1958
!CCDBC0620		1967
!CCDBC0621		1972
	....With Payroll	
!CCDBC0622		1954
!CCDBC0623		1958
!CCDBC0624		1963
!CCDBC0625		1963
	....Percent With Payroll	
!CCDBC0626		1967
!CCDBC0627		1972
	....Operated by Unincorporated Business	
!CCDBC0628		1939
!CCDBC0629		1948
!CCDBC0630		1954
!CCDBC0631		1958
!CCDBC0632		1963
!CCDBC0633		1967
!CCDBC0634		1972
	....Sales \$1000	
!CCDBC0635		1939
!CCDBC0636		1948
!CCDBC0637		1954
!CCDBC0638		1958
!CCDBC0639		1963
!CCDBC0640		1967
!CCDBC0641		1972
	....Sales Percent Change	
!CCDBC0642		1963
!CCDBC0643		1967
	....With Payroll Sales \$1000	
!CCDBC0644		1958
	....Sales, Percent With Payroll	
!CCDBC0645		1967
!CCDBC0646		1972
	....Sales, Food Stores \$1000	
!CCDBC0647		1948
!CCDBC0648		1954
!CCDBC0649		1958
!CCDBC0650		1963
	....Sales, Percent Food Stores	

!CCDBC0651	1967
!CCDBC0652	1972
!CCDBC0653	.....Sales, Automotive \$1000
!CCDBC0654	1954
!CCDBC0655	1958
!CCDBC0656	1963
!CCDBC0657	.....Sales, Percent Automotive
!CCDBC0658	1967
!CCDBC0659	1972
!CCDBC0660	.....Sales, General Merchandise \$1000
!CCDBC0661	1954
!CCDBC0662	1958
!CCDBC0663	1963
!CCDBC0664	.....Sales, Percent General Merchandise
!CCDBC0665	1967
!CCDBC0666	1972
!CCDBC0667	.....Sales, Eating & Drinking \$1000
!CCDBC0668	1948
!CCDBC0669	1954
!CCDBC0670	.....Sales, Percent Eating & Drinking
!CCDBC0671	1967
!CCDBC0672	1972
!CCDBC0673	.....Sales, Gas Stations \$1000
!CCDBC0674	1948
!CCDBC0675	1954
!CCDBC0676	.....Sales, Percent Gas Stations
!CCDBC0677	1967
!CCDBC0678	1972
!CCDBC0679	.....Sales, Home Furnishings \$1000
!CCDBC0680	1954
!CCDBC0681	.....Sales, Percent Home Furnishings
!CCDBC0682	1967
	1972
	.....Sales, Building Materials \$1000
	1954
	.....Sales, Percent Building Materials
	1967
	1972
	.....Sales, Apparel \$1000
	1948
	1954
	.....Sales, Percent Apparel
	1967
	1972
	.....Sales, Percent Drug Stores
	1967
	1972

Establishments by Type

	_.Food	
!CCDBC0683		1948
!CCDBC0684		1954
!CCDBC0685		1958
!CCDBC0686		1963
!CCDBC0687		1972
	_.Automotive	
!CCDBC0688		1954
!CCDBC0689		1958
!CCDBC0690		1963
!CCDBC0691		1972
	_.General Merchandise	
!CCDBC0692		1954
!CCDBC0693		1958
!CCDBC0694		1963
!CCDBC0695		1972
	_.Eating & Drinking	
!CCDBC0696		1948
!CCDBC0697		1954
!CCDBC0698		1972
	_.Gas Stations	
!CCDBC0699		1954
!CCDBC0700		1972
	_.Home Furnishings	
!CCDBC0701		1954
!CCDBC0702		1972
	_.Building Materials-Hardware	
!CCDBC0703		1954
	_.Apparel	
!CCDBC0704		1948
!CCDBC0705		1954

RETAIL TRADE - PAYROLL & EMPLOYMENT

_____.Payroll \$1000

!CCDBC0706	1939
!CCDBC0707	1954
!CCDBC0708	1958
!CCDBC0709	1963
!CCDBC0710	1967
!CCDBC0711	1972

_____.Paid Employees

!CCDBC0712	1939
!CCDBC0713	1948
!CCDBC0714	1954
!CCDBC0715	1958
!CCDBC0716	1963
!CCDBC0717	1967
!CCDBC0718	1972

County Data Book Data Elements	PERSONAL BUSINESS AND REPAIR SERVICES Description	Year
	Service Establishments Receipts	
!CCDBC0748	Personal Business & Repair \$1000	1948
	.....Receipts Personal \$1000	
!CCDBC0749		1954
	.....Personal Business Repair	
!CCDBC0725		1948
	.....Personal	
!CCDBC0726		1954
	.....Paid Employees, Personal Business Repair	
!CCDBC0768		1948
	.....Active Proprietors, Personal Business Repair	
!CCDBC0774		1948

	Selected Services Establishments	
!CCDBC0719		1939
!CCDBC0720		1954
!CCDBC0721		1958
!CCDBC0722		1963
!CCDBC0723		1967
!CCDBC0724		1972
	_....Receipts \$1000	
!CCDBC0734		1939
!CCDBC0735		1954
!CCDBC0736		1958
!CCDBC0737		1963
!CCDBC0738		1967
!CCDBC0739		1972
	_....Receipts Percent Change	
!CCDBC0740		1963
!CCDBC0741		1967
	_....With Payroll Receipts \$1000	
!CCDBC0742		1958
	_....Receipts Percent Establishments With Payroll	
!CCDBC0743		1967
!CCDBC0744		1972
	_....Payroll \$1000	
!CCDBC0756		1939
!CCDBC0757		1954
!CCDBC0758		1958
!CCDBC0759		1963
!CCDBC0760		1967
!CCDBC0761		1972
	_....Paid Employees	
!CCDBC0762		1939
!CCDBC0763		1954
!CCDBC0764		1958
!CCDBC0765		1963
!CCDBC0766		1967
!CCDBC0767		1972
	_....Paid Employees, Amusements	
!CCDBC0770		1948

SERVICE ESTABLISHMENTS BY TYPE

	Auto Repair	
!CCDBC0727		1954
	Tourists Courts & Camps	
!CCDBC0728		1948
	Amusements	
!CCDBC0729		1948
	With Payroll	
!CCDBC0730		1958
!CCDBC0731		1963
	Percent With Payroll	
!CCDBC0732		1967
!CCDBC0733		1972
	Receipts	
	_. . . .Hotels Motels Camps \$1000	
!CCDBC0745		1948
	_. . . .Percent Hotels Motels Camps	
!CCDBC0746		1967
!CCDBC0747		1972
	_. . . .Auto Repair \$1000	
!CCDBC0750		1954
	_. . . .Percent Auto Repair	
!CCDBC0751		1967
!CCDBC0752		1972
	_. . . .Amusement \$1000	
!CCDBC0753		1948
	_. . . .Percent Amusement	
!CCDBC0754		1967
!CCDBC0755		1972
	_. . . .Paid Employees Tourist Courts & Camps	
!CCDBC0769		1948
	_. . . .Active Proprietors	
!CCDBC0771		1939
!CCDBC0772		1954
!CCDBC0773		1958

	Wholesale Trade Establishments	
!CCDBC0775	1939	
!CCDBC0776	1948	
!CCDBC0777	1954	
!CCDBC0778	1958	
!CCDBC0779	1963	
!CCDBC0780	1967	
!CCDBC0781	1972	
_.	Merchant Wholesalers	
!CCDBC0782	1954	
!CCDBC0783	1958	
_.	Percent Merchant Wholesalers	
!CCDBC0784	1972	
_.	Sales \$000	
!CCDBC0785	1939	
!CCDBC0786	1948	
!CCDBC0787	1954	
!CCDBC0788	1958	
!CCDBC0789	1963	
	Millions of Dollars	
!CCDBC0790	1967	
!CCDBC0791	1972	
_.	Percent Change	
!CCDBC0792	1967	
_.	Merchant Wholesalers \$1000	
!CCDBC0793	1954	
!CCDBC0794	1958	
!CCDBC0795	1963	
_.	Percent Merchant Wholesalers	
!CCDBC0796	1967	
!CCDBC0797	1972	
_.	Paid Employees	
!CCDBC0798	1948	
!CCDBC0799	1954	
!CCDBC0800	1958	
!CCDBC0801	1963	
!CCDBC0802	1967	
!CCDBC0803	1972	
	Payroll \$1000	
!CCDBC0804	1954	
!CCDBC0805	1958	
!CCDBC0806	1963	
!CCDBC0807	1967	
!CCDBC0808	1972	
_.	Proprietors	
!CCDBC0809	1954	

	Mineral Industries Establishments	
!CCDBC0810		1958
!CCDBC0811		1963
!CCDBC0812		1967
!CCDBC0813		1972
	Employees	
!CCDBC0814		1939
!CCDBC0815		1958
!CCDBC0816		1963
	Employees (thousands)	
!CCDBC0817		1967
!CCDBC0818		1972
	Employees Percent Change	
!CCDBC0819		1967
	Payroll \$1000	
!CCDBC0820		1939
!CCDBC0821		1958
!CCDBC0822		1963
	Payroll (millions of dollars)	
!CCDBC0823		1967
!CCDBC0824		1972
	Value Shipments & Receipts \$M	
!CCDBC0825		1939
!CCDBC0826		1958
!CCDBC0827		1963
!CCDBC0828		1967
!CCDBC0829		1972
!CCDBC0830		1954
!CCDBC0831		1958
	.....Percent Change	
!CCDBC0832		1967
	Value Added \$M	
!CCDBC0833		1963
!CCDBC0834		1972
	Capital Expenditures \$1000	
!CCDBC0835		1963

	Manufacturing Establishments	
!CCDBC0481		1939
!CCDBC0482		1947
!CCDBC0483		1954
!CCDBC0484		1958
!CCDBC0485		1963
!CCDBC0486		1967
!CCDBC0487		1972
!CCDBC0488		1939
!CCDBC0489		1950
	_.With 1-19 Employees	
!CCDBC0490		1947
!CCDBC0491		1950
!CCDBC0492		1954
	_.With 20 or More Employees	
!CCDBC0493		1963
	_.Percent With 20 or More Employees	
!CCDBC0494		1972
	_.With 20-99 Employees	
!CCDBC0495		1954
!CCDBC0496		1958
!CCDBC0497		1963
	_.Percent With 20-99 Employees	
!CCDBC0498		1967
	_.With 20-49 Employees	
!CCDBC0499		1947
!CCDBC0500		1950
	_.With 50-99 Employees	
!CCDBC0501		1947
!CCDBC0502		1950
	_.With 100 Employees or More	
!CCDBC0503		1954
!CCDBC0504		1958
!CCDBC0505		1963
	_.Percent With 100 Employees or More	
!CCDBC0506		1967
!CCDBC0507		1972
	_.With 100-249 Employees	
!CCDBC0508		1947
!CCDBC0509		1950
	_.With 250 Employees or More	
!CCDBC0510		1947
!CCDBC0511		1950
	Employees	
!CCDBC0512		1947
!CCDBC0513		1947
!CCDBC0514		1954
!CCDBC0515		1958
!CCDBC0516		1963
!CCDBC0517		1967

!CCDBC0518		1972
!CCDBC0519		1949
!CCDBC0520		1950
	Employees Percent Change	
!CCDBC0521		1967
	Payroll \$1000	
!CCDBC0522		1947
!CCDBC0523		1954
!CCDBC0524		1958
!CCDBC0525		1963
	Payroll Million Dollars	
!CCDBC0526		1967
!CCDBC0527		1972
	Taxable Payroll \$1000	
!CCDBC0528		1949
!CCDBC0529		1950
	Production Workers	
!CCDBC0530		1939
!CCDBC0531		1947
!CCDBC0532		1954
!CCDBC0533		1958
!CCDBC0534		1963
!CCDBC0535		1967
!CCDBC0536		1972
	Manufacturing Production Workers Hours Worked \$1000	
!CCDBC0537		1958
!CCDBC0538		1963
	Millions	
!CCDBC0539		1967
!CCDBC0540		1972
	Manufacturing Production Workers Wages \$1000	
!CCDBC0541		1939
!CCDBC0542		1947
!CCDBC0543		1954
!CCDBC0544		1958
!CCDBC0545		1963
	....Million Dollars	
!CCDBC0546		1967
!CCDBC0547		1972
	Manufacturing Establishments Value of Products \$1000	
!CCDBC0548		1939
	Value-Added \$1000	
!CCDBC0549		1939
!CCDBC0550		1947
!CCDBC0551		1954
!CCDBC0552		1958
!CCDBC0553		1963
	Value-Added Million Dollars	
!CCDBC0554		1967
!CCDBC0555		1972

	Added Percent Change	
!CCDBC0556	1963	
!CCDBC0557	1967	
	New Capital Expenditures \$1000	
!CCDBC0558	1954	
!CCDBC0559	1958	
!CCDBC0560	1963	
	\$Mil.	
!CCDBC0561	1967	
!CCDBC0562	1972	
	Number of Establishments With 20 Or More Employees by Type	
	Food & Tobacco	
!CCDBC0563	1963	
	Food	
!CCDBC0564	1947	
!CCDBC0565	1954	
	Tobacco	
!CCDBC0566	1947	
!CCDBC0567	1954	
	Textile-Apparel-Leather	
!CCDBC0568	1963	
	Textile	
!CCDBC0569	1947	
!CCDBC0570	1954	
	Apparel	
!CCDBC0571	1947	
!CCDBC0572	1954	
	Leather	
!CCDBC0573	1947	
!CCDBC0574	1954	
	Paper & Printing	
!CCDBC0575	1963	
	Paper (Excl.Pulp)	
!CCDBC0576	1947	
	Paper (Incl.Pulp)	
!CCDBC0577	1954	
	Printing & Publishing	
!CCDBC0578	1947	
!CCDBC0579	1954	
	Chem. Petro. Rubber and Plastics	
!CCDBC0580	1963	
	Chemicals	
!CCDBC0581	1947	
!CCDBC0582	1954	
	Petroleum	
!CCDBC0583	1947	
!CCDBC0584	1954	
	Rubber	

!CCDBC0585	1947
!CCDBC0586	1954
	Lumber Wood Furniture
!CCDBC0587	1963
	Lumber Excluding Furniture
!CCDBC0588	1947
!CCDBC0589	1954
	Furniture and Fixtures
!CCDBC0590	1947
!CCDBC0591	1954
	Stone Clay and Glass
!CCDBC0592	1947
!CCDBC0593	1954
!CCDBC0594	1963
	Primary & int. Metals
!CCDBC0595	1963
	Primary Metals
!CCDBC0596	1947
!CCDBC0597	1954
	Fabricated Metals
!CCDBC0598	1947
!CCDBC0599	1954
	Electric & Non Electric Machinery
!CCDBC0600	1963
	Machinery Except Electric.
!CCDBC0601	1947
!CCDBC0602	1954
	Electric. Machinery
!CCDBC0603	1947
!CCDBC0604	1954
	Transportation & Ordnance
!CCDBC0605	1963
	Transportation Equipment.
!CCDBC0606	1947
!CCDBC0607	1954
	Instruments & Miscellaneous
!CCDBC0608	1963
	Instruments
!CCDBC0609	1947
!CCDBC0610	1954
	Miscellaneous
!CCDBC0611	1947
!CCDBC0612	1954

!CCDBC0443	Major War Supply Contracts Combat Equipment. \$M	1940
!CCDBC0444	Other \$1000	1940
!CCDBC0445	Facilities Projects Industrial \$1000	1940
!CCDBC0446	Military \$1000	1940

	Farms	
!CCDBC0836		1940
!CCDBC0837		1945
!CCDBC0838		1950
!CCDBC0839		1954
!CCDBC0840		1959
!CCDBC0841		1964
!CCDBC0842		1969
!CCDBC0843		1974
	Farms Percent Change	
!CCDBC0844		1964
!CCDBC0845		1969
	Commercial Farms	
!CCDBC0846		1950
!CCDBC0847		1954
!CCDBC0848		1959
!CCDBC0849		1964
	With \$2500 or Less Products Sold	
!CCDBC0850		1954
!CCDBC0851		1959
	Percent With \$2500 Or less Products Sold	
!CCDBC0852		1964
	With \$10000+ Products sold	
!CCDBC0853		1959
	Percent With \$10000+ Products Sold	
!CCDBC0854		1964
	With \$25000+ Products Sold	
!CCDBC0855		1954
	Farms Part Time	
!CCDBC0856		1954
!CCDBC0857		1959
!CCDBC0858		1964
	Percent Operated by Tenants	
!CCDBC0859		1940
!CCDBC0860		1945
!CCDBC0861		1950
!CCDBC0862		1954
!CCDBC0863		1959
!CCDBC0864		1964
	Land in Farms 1000 Acres	
!CCDBC0865		1945
!CCDBC0866		1950
!CCDBC0867		1954
!CCDBC0868		1959
!CCDBC0869		1964
!CCDBC0870		1969
!CCDBC0871		1974
	Percent Change	
!CCDBC0872		1964
!CCDBC0873		1969

	Percent in Farms	
!CCDBC0874		1954
!CCDBC0875		1959
!CCDBC0876		1964
!CCDBC0877		1969
!CCDBC0878		1974
	Cropland 1000 Acres	
!CCDBC0879		1974
	Harvested 1000 Acres	
!CCDBC0880		1945
!CCDBC0881		1950
!CCDBC0882		1954
	Commercial Farms 1000 Acres	
!CCDBC0883		1950
	Percent Harvested	
!CCDBC0884		1974
	Value of Farm Property \$1000	
!CCDBC0885		1940
	Average per Farm \$	
!CCDBC0886		1940
	Value of Farm Land & Buildings \$1000	
!CCDBC0887		1945
	Value of Farm Land and Buildings Average per Farm \$	
!CCDBC0888		1945
!CCDBC0889		1950
!CCDBC0890		1954
!CCDBC0891		1959
!CCDBC0892		1964
!CCDBC0893		1969
	Average per farm (thousands of dollars)	
!CCDBC0894		1974
	Average per Commercial Farm \$	
!CCDBC0895		1950
	Value of Farm Land and Buildings Average per Acre \$	
!CCDBC0896		1945
!CCDBC0897		1954
!CCDBC0898		1959
!CCDBC0899		1964
!CCDBC0900		1969
!CCDBC0901		1974
	Average Size of Farms Acres	
!CCDBC0902		1954
!CCDBC0903		1959
!CCDBC0904		1964
!CCDBC0905		1969
!CCDBC0906		1974
	Farms Under 10 Acres	
!CCDBC0907		1954
!CCDBC0908		1959
!CCDBC0909		1964

!CCDBC0910		1969
!CCDBC0911		1974
!CCDBC0912	180 Acres	1974
	With 1000 Acres or More	
!CCDBC0913		1954
!CCDBC0914		1959
!CCDBC0915		1964
!CCDBC0916		1969
!CCDBC0917		1974
	with Sales \$2500 or More	
!CCDBC0918		1969
!CCDBC0919		1974
	with Sales \$2500 or More, Percent Operated by Corporation	
!CCDBC0920		1969
!CCDBC0921		1974
	Percent with Sales of \$10000-\$39999	
!CCDBC0922		1969
!CCDBC0923		1974
	Percent with Sales of \$40000 or More	
!CCDBC0924		1969
!CCDBC0925		1974
	with Sales Less Than \$2500	
!CCDBC0926		1969
	Part Time Farms Percent With Sales Under \$2500	
!CCDBC0927		1969
	Farm Expenditures for Production, Million Dollars	
!CCDBC0928		1974
	Livestock & Poultry Feed \$1000	
!CCDBC0929		1950
!CCDBC0930		1954
!CCDBC0931		1959
	Hired Labor \$1000	
!CCDBC0932		1950
!CCDBC0933		1954
!CCDBC0934		1959
	Hired Labor Million Dollars	
!CCDBC0935		1974
	Commercial Fertilizer \$1000	
!CCDBC0936		1954
	Commercial Fertilizers Used Tons	
!CCDBC0937		1959
	Value of Farm Products Sold \$1000	
!CCDBC0938		1950
!CCDBC0939		1954
!CCDBC0940		1959
!CCDBC0941		1964
	Farm Products Sold Average Value per Farm \$	
!CCDBC0942		1964

	Value of Crops Sold \$1000	
!CCDBC0943	1950	
!CCDBC0944	1954	
!CCDBC0945	1959	
!CCDBC0946	1964	
	Value of Livestock & Livestock Products Sold \$1000	
!CCDBC0947	1950	
!CCDBC0948	1954	
!CCDBC0949	1959	
!CCDBC0950	1964	
	Dairy Products Sold \$1000	
!CCDBC0951	1950	
!CCDBC0952	1954	
!CCDBC0953	1959	
	Poultry & Poultry Products Sold \$1000	
!CCDBC0954	1950	
!CCDBC0955	1954	
!CCDBC0956	1959	
	Farms With Sales \$2500 or more	
	Value of Products Sold \$000	
!CCDBC0957	1969	
	\$Million	
!CCDBC0958	1974	
	Average Value Products Sold	
!CCDBC0959	1969	
	Value Products Sold Percent Crops	
!CCDBC0960	1969	
!CCDBC0961	1974	
	Value Products Sold Percent Dairy	
!CCDBC0962	1969	
!CCDBC0963	1974	
	Value Products Sold %Livestock plus Products.	
!CCDBC0964	1969	
!CCDBC0965	1974	
	Value Poultry + Products Percent	
!CCDBC0966	1969	
!CCDBC0967	1974	
	Farms Percent With Value of Products Less than \$400	
!CCDBC0968	1940	
	Farms With Value of Products \$1000 or More	
!CCDBC0969	1945	
	Value of Products Sold or Used \$1000	
!CCDBC0970	1945	
	Percent From Sales of Livestock plus Products.	
!CCDBC0971	1945	
	Percent From Sales of Crops	
!CCDBC0972	1945	
	Traded or Used \$1000	
!CCDBC0973	1940	
	Percent From Livestock +Livestock Products	

!CCDBC0974	1940	
!CCDBC0975	Percent From crops 1940	
!CCDBC0976	Farms With Dwellings With Electricity	
!CCDBC0977	1945	
!CCDBC0978	Running Water	
!CCDBC0979	1945	
!CCDBC0980	With Electricity	
!CCDBC0981	1950	
!CCDBC0982	Percent With Electricity	
!CCDBC0983	1954	
!CCDBC0984	With Electric. Last Monthly Bill Average \$	
!CCDBC0985	1950	
!CCDBC0986	With Telephones	
!CCDBC0987	1950	
!CCDBC0988	Percent With Telephones	
!CCDBC0989	1954	
!CCDBC0990	Percent With Trucks	
!CCDBC0991	1959	
!CCDBC0992	Percent With Tractors	
!CCDBC0993	1954	
!CCDBC0994	1959	
!CCDBC0995	Without Tractors Horses or Mules	
!CCDBC0996	1950	
!CCDBC0997	Percent With Piped Running Water	
!CCDBC0998	1954	
!CCDBC0999	With TV	
!CCDBC1000	1954	
!CCDBC1001	Cattle or Calves of All Ages on Farms	
!CCDBC1002	1945	
!CCDBC1003	1950	
!CCDBC1004	1954	
!CCDBC1005	Horses + Mules 3 Months or More on Farms	
!CCDBC1006	1940	
!CCDBC1007	Hogs & Pigs on Farms	
!CCDBC1008	1954	
!CCDBC1009	Tractors on Farms	
!CCDBC1010	1940	
!CCDBC1011	1945	
!CCDBC1012	1950	
!CCDBC1013	1954	
!CCDBC1014	Trucks on Farms	
!CCDBC1015	1950	
!CCDBC1016	1954	
!CCDBC1017	Autos on Farms	
!CCDBC1018	1950	
!CCDBC1019	1954	

	FARM HOUSEHOLDS, LEVEL OF LIVING	
!CCDBC1004	Persons in Farm Operator Household	1964
	Farm Operator Household Income	
	From Sources Other Than Farm Operated \$1000	1964
!CCDBC1005	Percent from Empliment	1964
!CCDBC1006	Farm Operators Percent Residing on Farm Operated	1969
!CCDBC1007		1974
!CCDBC1008	Working 100 Or more Days Off Farm	1945
!CCDBC1009		1950
!CCDBC1010		1964
!CCDBC1011	Percent Working 100 or More days off Farm	1969
!CCDBC1012		1974
!CCDBC1013	Principal Source of Farm Income	1940
!CCDBC1014	0 Farm Products Used by Farm	
	1 Livestock	
	2 Dairy Products	
	3 Poultry and Poultry Products	
	4 Other Livestock	
	5 Field Crops	
	6 Vegetables	
	7 Fruits and Nuts	
	8 Horticultural Specilities	
	9 Forest Products	
	Farm Income Percent From Principal Source	1940
!CCDBC1015	Rural Level of Living Index	1940
!CCDBC1016	Farm Operator Family Level of Living Index	1945
!CCDBC1017		1950
!CCDBC1018		1959
!CCDBC1019		1940
!CCDBC1020		1950
!CCDBC1021	Foreign Stock Percent Lead Country of Origin	1970
!CCDBC1022		

	Bank Deposits (thousands of dollars)	
!CCDBC0447	1944	
!CCDBC0448	1949	
!CCDBC0449	1950	
!CCDBC0450	1956	
!CCDBC0451	1960	
!CCDBC0452	1964	
	Bank Deposits (millions of dollars)	
!CCDBC0453	1970	
!CCDBC0454	1976	
	Percent Change	
!CCDBC0455	1960	
	Demand Deposits \$1000	
!CCDBC0456	1960	
!CCDBC0457	1964	
	Time Deposits \$1000	
!CCDBC0458	1944	
!CCDBC0459	1949	
!CCDBC0460	1950	
!CCDBC0461	1956	
!CCDBC0462	1960	
!CCDBC0463	1964	
	Million Dollars	
!CCDBC0464	1970	
!CCDBC0465	1976	
	Savings and Loan Associations	
!CCDBC0466	1948	
!CCDBC0467	1950	
	Savings Capital \$1000	
!CCDBC0468	1948	
!CCDBC0469	1950	
!CCDBC0470	1960	
!CCDBC0471	1964	
	Million Dollars	
!CCDBC0472	1970	
!CCDBC0473	1976	
	Savings and Loan Savings Capital Percent Change	
!CCDBC0474	1960	
	First Mortgage Loans \$1000	
!CCDBC0475	1948	
!CCDBC0476	1950	
!CCDBC0477	1960	
	E Bond Sales \$1000	
!CCDBC0478	1944	
!CCDBC0479	1949	
!CCDBC0480	1950	

Local Government - Revenue

Local Government General Revenue \$1000

!CCDBC0386

1957

!CCDBC0387

1962

Million Dollars

!CCDBC0388

1967

!CCDBC0389

1971

Intergovernmental Million Dollars

!CCDBC0390

1971

Percent Intergovernmental

!CCDBC0391

1962

!CCDBC0392

1967

Intergovernmental, percent Federal

!CCDBC0393

1971

Taxes Million Dollars

!CCDBC0394

1971

Taxes Percent of General Revenue

!CCDBC0395

1962

!CCDBC0396

1967

Property Tax Percent of General Revenue

!CCDBC0397

1957

Per Capita \$

!CCDBC0398

1962

!CCDBC0399

1967

!CCDBC0400

1971

Local Government - Expenditures

Direct General Expenditures \$1000

!CCDBC0401

1957

!CCDBC0402

1962

Million Dollars

!CCDBC0403

1967

!CCDBC0404

1971

Per Capita, Excluding Capital Outlays \$

!CCDBC0405

1962

!CCDBC0406

1967

!CCDBC0407

1971

Education \$M

!CCDBC0408

1962

Percent Education

!CCDBC0409

1957

!CCDBC0410

1967

!CCDBC0411

1971

Highways \$1000

!CCDBC0412

1962

Percent Highways

!CCDBC0413

1967

!CCDBC0414

1971

	Public Welfare \$1000
!CCDBC0415	1962
	Percent Public Welfare
!CCDBC0416	1967
!CCDBC0417	1971
	Health & Hospital \$1000
!CCDBC0418	1962
	Percent Health & Hospital
!CCDBC0419	1967
!CCDBC0420	1971
	Police Protection \$M
!CCDBC0421	1962

Local Government - Indebtedness

	General Debt Outstanding \$1000
!CCDBC0422	1957
!CCDBC0423	1962
	Million Dollars
!CCDBC0424	1967
!CCDBC0425	1971
	Per Capita
!CCDBC0426	1971

Known Errors and Omissions

This file uses a set of common county codes for all data elements, regardless of the version of the county data book from which they were drawn. For example, for the data element CCDBC0015 (1970 Population from the 1972 county data book), county codes are 1972 FIPS codes. For the data element CCDBC0016 (1970 Population from the 1977 county data book), county codes are 1977 FIPS codes.

Certain counties were redefined between 1972 and 1977. For example, state-county 51153 (Prince William County in Virginia) included Manassas City and Manassas Park City in 1972 but not in 1977. As a result, the data elements CCDBC0015 and CCDBC0016 refer to different geographic areas and are not directly comparable.

Similar inconsistencies exist between all data elements drawn from different editions of the County Data Book, for those counties whose definitions changed in the meantime.

To know which data elements were drawn from which editions of the County Data Book, consult the County Data Book printed documentation. (Fred Gey has a copy at LBL).

To know which counties changed definition between two editions of the County Data Book, consult Census Bureau documentation or old U.S. atlases. A partially validated record of such changes, compiled by Deane Merrill, is in `sy$seedis:[seedis.area]cnty6083.key`.

Technical Information

COUNTY80 level (1980 Census Counties)

In March 1984, Deane Merrill installed these data at the COUNTY80 level (1980 Census Counties) by executing the following command file county80.com:

```
$!disk$seedis001:[seedis.seedata.ccntdb77.county80]county80.com
$! install 1977 city county data book at county80 level
$set def disk$seedis001:[seedis.seedata.ccntdb77.county80]
$ch # $ >county80x.com
#! county80x.com 'pl'=FIPS.STATE code
#ch <[-.county]s'pl'.ndx >s'pl'.ndx FIPS.COUNTY FIPS.COUNTY80
#! end of county80x.com
$@county80x 01
$@county80x 02
$@county80x 04
etc
$@county80x 55
$@county80x 56
$rm county80x.com
```

END

DTIC

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